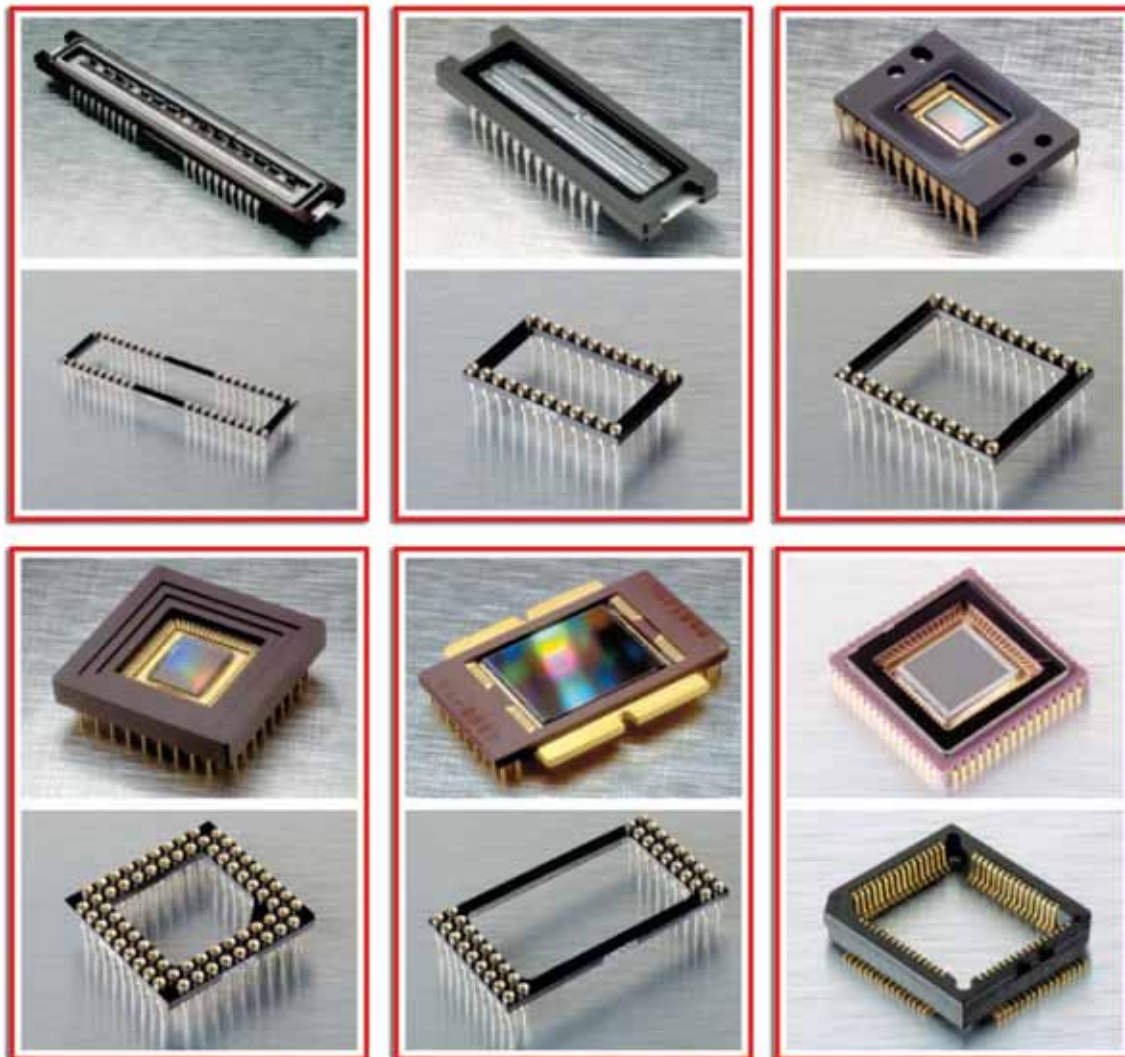


Image Sensor Sockets



with Andon's unique SenstacTM Contact
Maximum Protection and Reliability at Lowest Cost.

Andon has become recognized as the Interconnection Specialist, offering a single, reliable source for IC sockets, micro-precision sockets, adapters, board-to-board interconnects and contact/terminal products. Over the years Andon has set the industry standard for innovation, reliability and superior quality.

Andon's ISO 9001 certified facility offers leading edge tooling, stamping, high-temperature molding, screw machine products and automated assembly capabilities. The result is a line of products, like our Rollerball® Socket technology, that brings true problem solving product process innovation and cost savings to the industry.

Whether you need large or small volume production, stock solutions or custom sockets and interconnects, Andon has the inherently smart, simple and cost-effective solutions to make you more productive.



John O. Tate, Andon President, pioneered many of the innovative, high-reliability interconnects for military, aerospace

and commercial applications that have become industry standards. In 1965, he developed the stamped and formed multi-finger precision IC socket contact, which remains the preferred method throughout the world for connecting today's microprocessors and other critical components.

Image Sensor Sockets For High-Performance CCD Sensors

Andon has developed the largest line of Image Sensor Sockets in the industry. We have sockets for Atmel, Dalsa, E2V, Fairchild, Hamamatsu, Kodak, Marconi, Micron, Motorola, National, NEC, Peripheral Imaging, Phillips, Site, Sony, TI, and Toshiba.

Image Sensor sockets provide higher reliability because the sockets can be soldered to the motherboard in large quantities.

Later, as required, the sensors can be plugged-in or unplugged and upgraded easily.

The advantages for using sockets:

- Reduce static discharge (ESD) because of less handling.
- Eliminate soldering temperature which can effect the color array.
- Eliminate need to de-solder CCD
- Eliminate cleaning solution, scratches to glass plate and risk blistering PCB
- Eliminate assembly line temperatures, humidity and shock

Frame Grabber Sockets

- Andon is the industry leader for Rollerball® Ball Grid Array Sockets.
- Contacts are specifically designed for Ball Grid Array sockets.
- Andon can supply BGA sockets to any footprint.
Contact Andon for price and delivery
- Engineering assistance available.

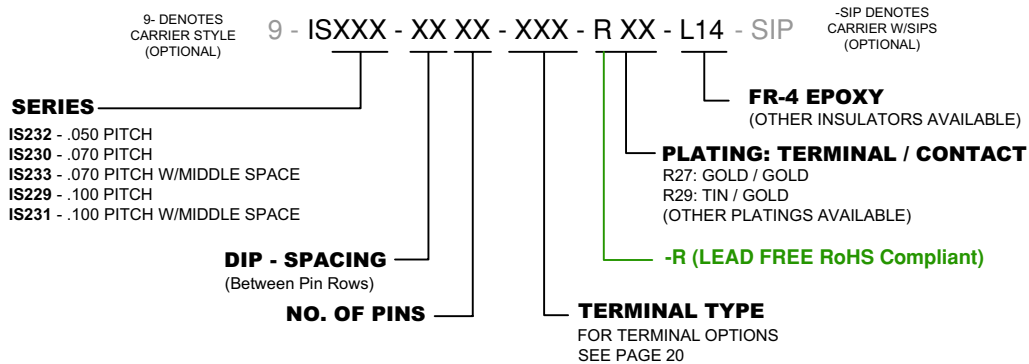
We produce, in-house, the contact we developed 38 years ago for the aerospace industry, which ensures a reliable source for your needs. Contacts are available in Low, Medium and High Force to suit your requirements.

Andon sockets provide perpendicularity, accurate spacing and interchangeability, while improving quality and reducing cost. Samples are available on request.

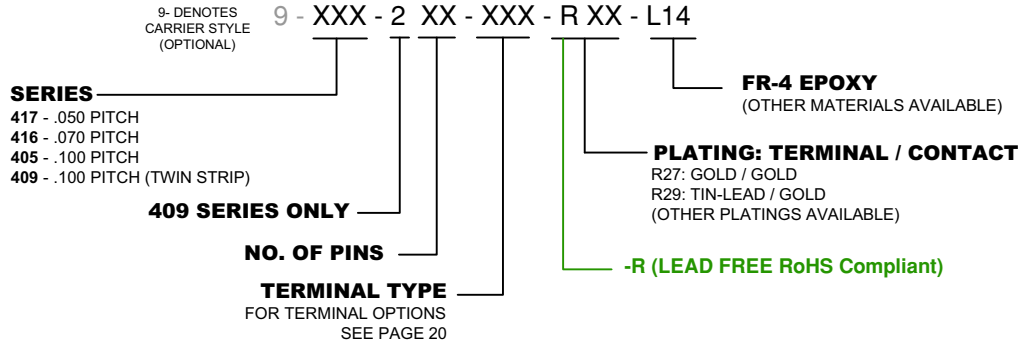
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Kyocera	7	IS229 .100 [2.54] Pitch DIP Sockets	9	680 .040 [1.01] Pitch LCC Sockets	19
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Motorola	7	IS229-D .100 [2.54] Pitch Dual DIP Sockets	11	Appendix B: Part Number Index	22
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DIP SOCKET PART NUMBERING SYSTEM



SIP SOCKET PART NUMBERING SYSTEM



TECHNICAL INFORMATION

MATERIAL

INSULATOR: -L14 BLACK FR4 LAMINATE WITH LOGO (OTHER INSULATORS AVAILABLE)
TERMINAL: BRASS, PER ASTM-B16
CONTACT: HEAT-TREATED BERYLLIUM COPPER, PER ASTM-B194

PLATING

R27: TERMINAL: GOLD 10u INCHES MINIMUM
CONTACT: GOLD 10u INCHES MINIMUM
R29: TERMINAL: TIN
CONTACT: GOLD 10u INCHES MINIMUM
(OTHER PLATINGS AVAILABLE)

FORCES - STANDARD FOR .100 & .070 PITCH

'S' INSERTION: 9.0 OZ AVG **'M'** INSERTION: 1.6 OZ MAX
WITHDRAWAL: 2.0 OZ MIN WITHDRAWAL: 0.5 OZ MIN
ACCEPTABLE PIN RANGE
.015 [0.38] TO .022 [0.56] DIAMETER

FORCES - STANDARD FOR .050 PITCH

'U' INSERTION: 2.8 OZ AVG **'K'** INSERTION: 1.0 OZ MAX
WITHDRAWAL: 0.5 OZ MIN WITHDRAWAL: 0.4 OZ MIN
ACCEPTABLE PIN RANGE
.015 [0.38] TO .022 [0.56] DIAMETER

Image Sensor Socket Applications

Image Sensor sockets provide higher reliability because the sockets can be soldered to the motherboard in large quantities. Later, as required, the sensors can be plugged-in or unplugged and upgraded easily.

The advantages for using Image Sensor Sockets:

- Eliminate production line Electro-Static Discharge (ESD) because device is plugged in after all assembly.
- Eliminate soldering temperature which can effect the color array.
- Eliminate the need to de-solder CCD.
- Eliminate cleaning solution, scratches to glass plate and risk blistering PCB.
- Eliminate assembly line temperatures, humidity and shock.

After assembly your device is plugged into a range of available contact forces, built to suit your application. Your circuit boards equipped with our sockets will enable your devices to be interchanged, or replaced in case of damage or upgrade, For more detailed information, contact us at Info@andonelect.com!

Phase 1:

Carrier Assemblies designed to your pin layout arrive at your facility pre-loaded and ready for assembly.



Phase 2:

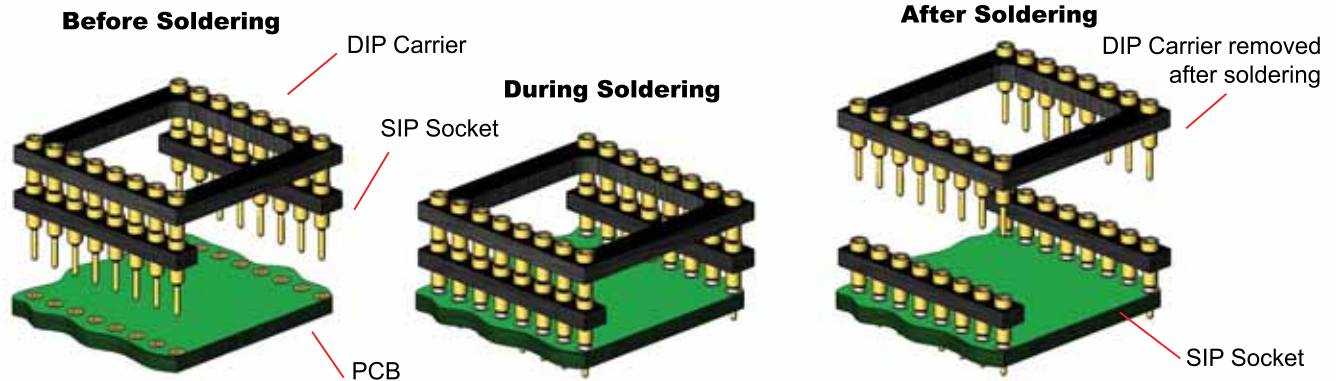
Carrier Assembly is placed through your soldering process to ensure perpendicularity and coplanarity.



Phase 3:

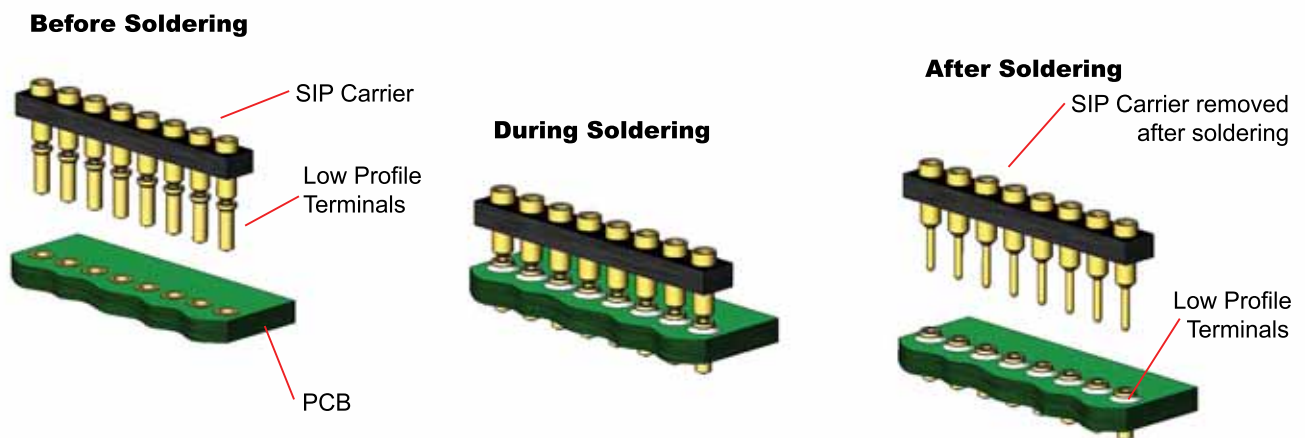
After soldering, Carrier is removed from the assembly and your device is plugged in.

DIP CARRIER ASSEMBLY



DIP Carrier Assemblies *carry* two sips through your soldering process to provide a perfectly perpendicular and coplanar socket after soldering. After assembly, DIP carrier is either discarded or sent back to our factory for re-loading.

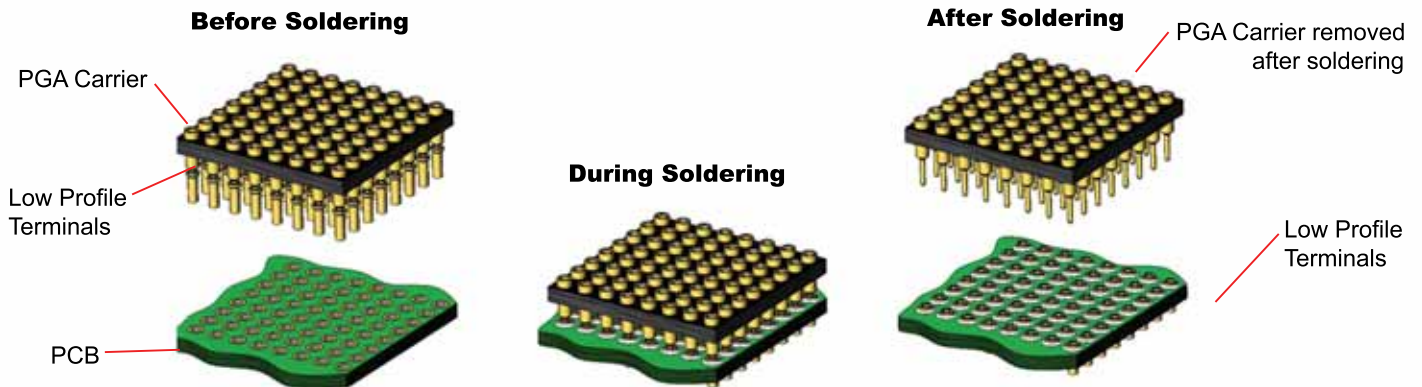
LOW PROFILE SIP CARRIER ASSEMBLY



SIP Carrier Assemblies *carry* low profile terminals through your soldering process to provide a space saving perfectly perpendicular, coplanar, and substrateless socket after soldering. After assembly, SIP carrier is either discarded or sent back to our factory for re-loading.

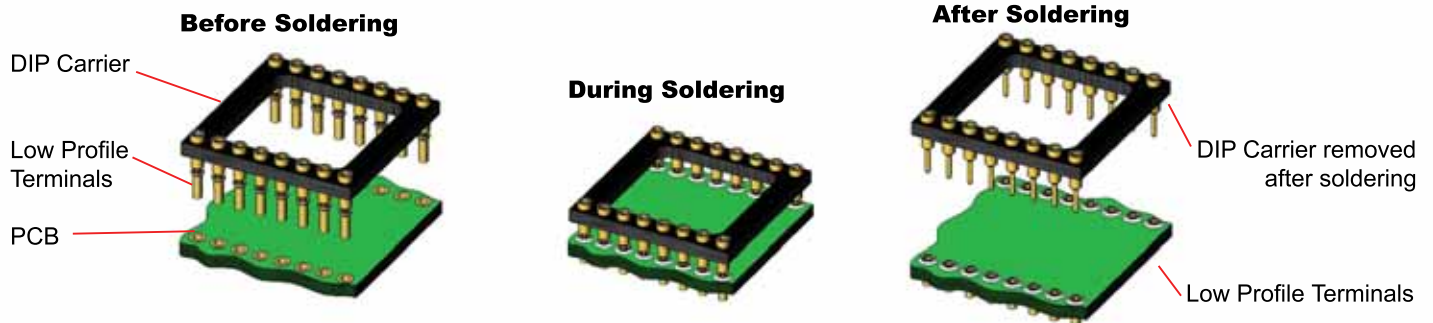
See Page 20 for Terminal Details and Contact Forces.

Image Sensor Socket Applications LOW PROFILE PGA CARRIER ASSEMBLY



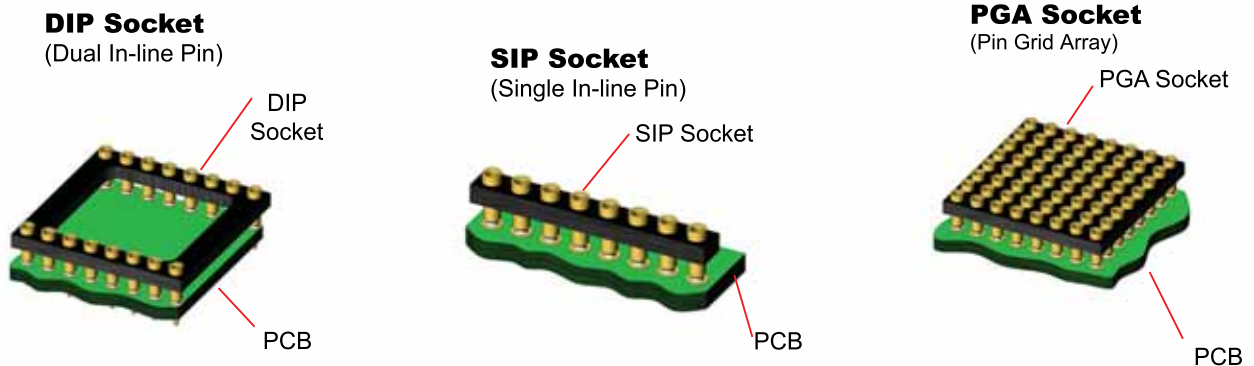
PGA Carrier Assemblies *carry* low profile terminals through your soldering process to provide a space saving perfectly perpendicular, coplanar, and substrateless socket after soldering. After assembly, the PGA carrier is either discarded or sent back to our factory for re-loading.

LOW PROFILE DIP CARRIER ASSEMBLY



DIP Carrier Assemblies *carry* low profile terminals through your soldering process to provide a space saving perfectly perpendicular, coplanar, and substrateless socket after soldering. After assembly, the DIP carrier is either discarded or sent back to our factory for re-loading.

Standard Image Sensor Sockets



Standard Image Sensor Sockets take the place of your device during the assembly process, saving your devices from unexpected damage, and saving your companies bottom line from unexpected cost as a result. Can be designed to any pin layout or configuration. If your device's layout is not featured in this catalog, contact us at Info@andonelect.com.

See Page 20 for Terminal Details and Contact Forces.

Image Sensor to Socket Cross Reference

Atlasens			
Atlasens Part Number	Andon Part Number	Page	Fig.
2460-1280X720	680-48-SM-G10-R14-X	19	23
2460-1280X1024	680-48-SM-G10-R14-X	19	23
2462-1280X720	680-48-SM-G10-R14-X	19	23
2462-1280X1024	680-48-SM-G10-R14-X	19	23
2463-1280X720	680-48-SM-G10-R14-X	19	23
2463-1280X1024	680-48-SM-G10-R14-X	19	23
2560-1280X720	680-48-SM-G10-R14-X	19	23
2560-1280X1024	680-48-SM-G10-R14-X	19	23
2562-1280X720	680-48-SM-G10-R14-X	19	23
2562-1280X1024	680-48-SM-G10-R14-X	19	23
2563-1280X720	680-48-SM-G10-R14-X	19	23
2563-1280X1024	680-48-SM-G10-R14-X	19	23
3560-1280X720	10-14-11-097-400T4-R27-L14	19	4
3560-1920X1080	10-14-11-097-400T4-R27-L14	19	4
3562-1280X720	10-14-11-097-400T4-R27-L14	19	4
3562-1920X1080	10-14-11-097-400T4-R27-L14	19	4
3570-2080X1170	10-14-11-097-400T4-R27-L14	19	4
HD4562	10-14-11-097-400T4-R27-L14	19	4

Cypress			
Cypress Part Number	Andon Part Number	Page	Fig.
CYI4SC014KAA-GTC	IS231-1149D-01S-R29-L14	11	37
CYI4SM014KAA-GEC	IS231-1149D-01S-R29-L14	11	37
CYI4SM6600AB	620-68-SM-G10-L14-X	19	23
CYIL2SM1300AA	10-24-05-168-347T-R27-L14	19	5
IBIS4-14000	IS231-1149D-01S-R29-L14	11	37
IBIS4-A-6600	620-68-SM-G10-L14-X	19	23
LUPA-300	680-48-SM-G10-L14-X	19	23
LUPA-1300	575-15-28-145-01S-R29-L14	14	36
LUPA-1300-2	10-24-05-168-347T-R27-L14	19	5
LUPA-4000	575-16-24-127-01S-R29-L14	14	35

Dalsa			
Dalsa Part Number	Andon Part Number	Page	Fig.
1T-G3-2048	IS229-780D-01M-R29-L14	11	3
DCI0605C	680-32-SM-G10-L14-X	19	23
FT18	IS230-632-75S-R29-L14	15	6
FT50M	IS232-628-274U-R27-L14	18	8
FTF2020M	575-15-65-084-01S-R29-L14	13	24
FTF2021M	575-15-65-084-01S-R29-L14	13	24
FTF2416C	620-40A-SM-G10-L14-X	19	23
FTF2416M	620-40A-SM-G10-L14-X	19	23
FTF3020C	575-20-16-096-01S-R29-L14	13	22
FTF3020C-HS	575-20-16-096-01S-R29-L14	13	22
FTF3020M	575-20-16-096-01S-R29-L14	13	22
FTF3021M	575-20-16-096-01S-R29-L14	13	22
FTF3041M	575-25-04-080-01S-R29-L14	13	25
FTF4027C	575-20-16-096-01S-R29-L14	13	22
FTF4027M	575-20-16-096-01S-R29-L14	13	22
FTF4052C	575-25-04-080-01S-R29-L14	13	25
FTF4052M	575-25-04-080-01S-R29-L14	13	25
FTF5033C	575-20-16-096-01S-R29-L14	13	22
FTF5033M	575-20-16-096-01S-R29-L14	13	22
FTF5066C	575-25-04-080-93S-R29-L14	13	25
FTF5066M	575-25-04-080-01S-R29-L14	13	25
FTF6146C	575-23-02-104-01S-R29-L14	14	28
FTF6146M	575-23-02-104-01S-R29-L14	14	28
FTF7040M	575-40-02-104-01S-R29-L14	14	26
FTT1010M	575-15-63-080-01S-R29-L14	13	20
IA-D1-0128	IS229-624-01S-R29-L14	9	1
IA-D1-0256	IS229-624-01S-R29-L14	9	1
IA-DJ-01044	IS229-1639D-80M-R29-L14	11	3
IA-DJ-02084	IS229-2239-01S-R29-L14	9	1
IA-DJ-05524	IS229-1639D-80M-R29-L14	11	3
IL-C6-2048	IS229-324-01S-R29-L14	9	1
IL-E2-0512	IS229-324-01S-R29-L14	9	1
IL-E2-1024	IS229-324-01S-R29-L14	9	1
IL-E2-2048	IS229-324-01S-R29-L14	9	1
IL-F7-0512	IS232-440-274U-R27-L14	18	8
IL-F7-1024	IS232-440-274U-R27-L14	18	8

Dalsa continued			
Dalsa Part Number	Andon Part Number	Page	Fig.
IL-F7-2048	IS232-440-274U-R27-L14	18	8
IL-P1-0512	IS230-532-75S-R29-L14	15	6
IL-P1-1024	IS230-532-75S-R29-L14	15	6
IL-P1-2048	IS230-532-75S-R29-L14	15	6
IL-P1-4096	IS233-532-75S-R29-L14	15	6
IL-P3-B-0512	IS229-324-01S-R29-L14	9	1
IL-P3-B-1024	IS229-324-01S-R29-L14	9	1
IL-P3-B-2048	IS229-324-01S-R29-L14	9	1
IT-F6-2048B	IS229-650-01S-R29-L14	9	1
IT-P1-1024	IS230-532-75S-R29-L14	15	6
IT-P1-2048	IS230-532-75S-R29-L14	15	6
IT-P1-4096	IS233-532-75S-R29-L14	15	6
IT-P4-6144	IS233-532-75S-R29-L14	15	6
IT-P4-8192	IS233-532-75S-R29-L14	15	6

DATEL			
DATEL Part Number	Andon Part Number	Page	Fig.
ADCDS-1405	IS229-940-01S-R29-L14	9	1

e2v			
e2v Part Number	Andon Part Number	Page	Fig.
AT71200M	575-19-27-088-01S-R29-L14	14	27
AT71201M	IS229-2488D-01S-R29-L14	11	3
CCD02-06dd	IS229-620-01S-R29-L14	9	1
CCD02-06ims	IS229-620-01S-R29-L14	9	1
CCD05-20ims	IS229-1644D-01S-R29-L14	11	3
CCD05-20sis	IS229-1644D-01S-R29-L14	11	3
CCD05-20-Y	IS229-1644D-01S-R29-L14	11	3
CCD05-30ims	IS229-1944D-01S-R29-L14	11	3
CCD05-30sis	IS229-1944D-01S-R29-L14	11	3
CCD30-11BI	IS229-6120-80S-R29-L14	9	1
CCD30-11bi	IS229-6120-80S-R29-L14	9	1
CCD30-11dd	IS229-6120-80S-R29-L14	9	1
CCD30-11DDSD	IS229-6120-80S-R29-L14	9	1
CCD30-11IMS	IS229-6120-80S-R29-L14	9	1
CCD30-11ms	IS229-6120-80S-R29-L14	9	1
CCD30-11OE	IS229-6120-80S-R29-L14	9	1
CCD30-11oe	IS229-6120-80S-R29-L14	9	1
CCD31-20	IS229-624-01S-R29-L14	9	1
CCD39-01BI	IS229-6124-01S-R29-L14	9	1
CCD39-02BI	IS229-6124-01S-R29-L14	9	1
CCD42-10BI	IS229-6120-80S-R29-L14	9	1
CCD42-10IMS	IS229-6120-80S-R29-L14	9	1
CCD42-40aimo	IS229-1824-80S-R29-L14	9	1
CCD42-40C_AIMO_BI	IS229-1824-80S-R29-L14	9	1
CCD42-40FI_AIMO_CCP	IS229-1824-80S-R29-L14	9	1
CCD42-40FI_NIMO_CCP	IS229-1824-80S-R29-L14	9	1
CCD42-40nimo	IS229-1824-80S-R29-L14	9	1
CCD42-40NIMO_BI	IS229-1824-80S-R29-L14	9	1
CCD42-90bi	575-08-04-040-80S-R29-L14	13	14
CCD44-82	575-08-04-040-80S-R29-L14	13	14
CCD47-10	IS229-932-01S-R29-L14	9	1
CCD47-10aibt	IS229-924-01S-R29-L14	9	1
CCD47-10aimo	IS229-924-01S-R29-L14	9	1
CCD47-10AIMO_CP	IS229-924-01S-R29-L14	9	1
CCD47-10BT	IS229-932-01S-R29-L14	9	1
CCD47-10BTCP	IS229-924-01S-R29-L14	9	1
CCD47-10nibt	IS229-924-01S-R29-L14	9	1
CCD47-10nimo	IS229-924-01S-R29-L14	9	1
CCD47-10NIMO_BTCP	IS229-924-01S-R29-L14	9	1
CCD47-10NIMO_CP	IS229-924-01S-R29-L14	9	1
CCD47-20	IS229-932-01S-R29-L14	9	1
CCD47-20AIMO	IS229-932-01S-R29-L14	9	1

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RoHS Compliant
Andon Proprietary Information
IS-09B 11/3/09

Image Sensor to Socket Cross Reference

e2v continued			
e2v Part Number	Andon Part Number	Page	Fig.
CCD47-20bt	IS229-932-01S-R29-L14	9	1
CCD47-20BT_NIMO	IS229-932-01S-R29-L14	9	1
CCD48-20BI_NIMO	IS229-932-01S-R29-L14	9	1
CCD55-20IMS	IS229-1644D-01S-R29-L14	11	3
CCD55-20IMS_BI	IS229-1644D-01S-R29-L14	11	3
CCD55-30	IS229-1944D-01S-R29-L14	11	3
CCD55-30BI	IS229-1944D-01S-R29-L14	11	3
CCD55-30IMS	IS229-1944D-01S-R29-L14	11	3
CCD57-10	IS229-932-01S-R29-L14	9	1
CCD57-10AIMO_BTCP	IS229-924-01S-R29-L14	9	1
CCD60 F/BI	IS229-624-75S-R29-L14	9	1
CCD60 Peltier FI	IS230-1232-75S-R29-L14	15	6
CCD62-06IMS	IS229-620-01S-R29-L14	9	1
CCD65	575-10-19-037-01S-R29-L14	14	30
CCD65 Peltier	IS230-1232-75S-R29-L14	15	6
CCD67BI_NIMO	IS229-924-01S-R29-L14	9	1
CCD67FI_NIMO	IS229-932-01S-R29-L14	9	1
CCD67FI_NIMO_CP	IS229-924-01S-R29-L14	9	1
CCD77-00BI	IS229-924-01S-R29-L14	9	1
CCD77-00FI	IS229-924-01S-R29-L14	9	1
CCD97 BI 2P IMO	IS230-930-75S-R29-L14	15	6
CCD97 FI 2P IMO	IS230-930-75S-R29-L14	15	6
CCD97 Peltier BI2PIMO	IS230-1232-75S-R29-L14	15	6
CCD97 Peltier FI2PIMO	IS230-1232-75S-R29-L14	15	6
CCD201-20 BI	575-14-39-036-01S-R29-L14	14	29
CCD201-20 FI	575-14-39-036-01S-R29-L14	14	29
CCD230-42	IS229-2278T-01M-R29-L14	10	42
CCD230-84 FI	IS229-3080D-01S-R29-L14	11	3
TH7804ACC	IS229-624-80S-R29-L14	9	1
TH7813A	IS229-420-01S-R29-L14	9	1
TH7814A	IS229-420-01S-R29-L14	9	1
TH7815A	IS229-420-01S-R29-L14	9	1
TH7817A	IS229-420-01S-R29-L14	9	1
TH7818A	IS229-420-01S-R29-L14	9	1
TH7819A	IS229-420-01S-R29-L14	9	1
TH7834CCC-RB	IS229-656-01S-R29-L14	9	1
TH7841ACC	IS229-628-80S-R29-L14	9	1
TH7888A	409-210-80S-R29-L14	11	11
TH7891M	575-16-26-032-01S-R29-L14	14	46
TH7899M	575-15-62-082-80S-R29-L14	13	19

Fairchild			
Fairchild Part Number	Andon Part Number	Page	Fig.
CCD111ADC	IS229-318-01S-R29-L14	9	1
CCD111BDC	IS229-318-01S-R29-L14	9	1
CCD133ADC	IS229-624-80S-R29-L14	9	1
CCD134	IS229-624-80S-R29-L14	9	1
CCD143ADC	IS229-628-80S-R29-L14	9	1
CCD153ADC	IS229-624-80S-R29-L14	9	1
CCD181DC	IS229-628-01S-R29-L14	9	1
CCD191DC	IS229-640-01S-R29-L14	9	1

Hamamatsu			
Hamamatsu Part Number	Andon Part Number	Page	Fig.
G8050-256R	IS229-828-88S-R29-L14	9	1
G8050-256S	IS229-828-88S-R29-L14	9	1
G8051-512R	IS229-828-88S-R29-L14	9	1
G8051-512S	IS229-828-88S-R29-L14	9	1
G8052-256R	IS229-828-88S-R29-L14	9	1
G8052-256S	IS229-828-88S-R29-L14	9	1
G8053-512R	IS229-828-88S-R29-L14	9	1
G8053-512S	IS229-828-88S-R29-L14	9	1
G8160-256S	IS229-828-88S-R29-L14	9	1
G8161-512S	IS229-828-88S-R29-L14	9	1
G8180-256W	IS229-828-88S-R29-L14	9	1
G9201-256	IS229-826-01S-R29-L14	9	1

Hamamatsu continued			
Hamamatsu Part Number	Andon Part Number	Page	Fig.
G9201-512S	IS229-828-01S-R29-L14	9	1
G9202-521S	IS229-826-01S-R29-L14	9	1
G9203-256D	IS229-826-01S-R29-L14	9	1
G9203-256S	IS229-826-01S-R29-L14	9	1
G9204-512D	IS229-826-01S-R29-L14	9	1
G9205-256W	IS229-828-01S-R29-L14	9	1
G9206-256W	IS229-828-01S-R29-L14	9	1
G9207-256W	IS229-828-01S-R29-L14	9	1
G9208-256W	IS229-828-01S-R29-L14	9	1
G9211-256S	IS229-828-01S-R29-L14	9	1
G9212-512S	IS229-828-01S-R29-L14	9	1
G9213-256S	IS229-828-01S-R29-L14	9	1
G9214-512S	IS229-828-01S-R29-L14	9	1
G9494-256D	IS229-422-01S-R29-L14	9	1
G9494-512D	IS229-622-01S-R29-L14	9	1
S10077	IS229-424-01S-R29-L14	9	1
S10140-1007	IS229-924-01S-R29-L14	9	1
S10140-1008	IS229-924-01S-R29-L14	9	1
S10140-1009	IS229-924-01S-R29-L14	9	1
S10140-1107	IS229-924-01S-R29-L14	9	1
S10140-1108	IS229-924-01S-R29-L14	9	1
S10140-1109	IS229-924-01S-R29-L14	9	1
S10141-1007	IS229-924-01S-R29-L14	9	1
S10141-1007S	IS229-924-01S-R29-L14	9	1
S10141-1008	IS229-924-01S-R29-L14	9	1
S10141-1008S	IS229-924-01S-R29-L14	9	1
S10141-1009	IS229-924-01S-R29-L14	9	1
S10141-1009S	IS229-924-01S-R29-L14	9	1
S10141-1107	IS229-924-01S-R29-L14	9	1
S10141-1107S	IS229-924-01S-R29-L14	9	1
S10141-1108	IS229-924-01S-R29-L14	9	1
S10141-1108S	IS229-924-01S-R29-L14	9	1
S10141-1109	IS229-924-01S-R29-L14	9	1
S10141-1109S	IS229-924-01S-R29-L14	9	1
S10201-04	IS232-440-274U-R27-L14	18	8
S10420-1006	IS229-424-400T4-R29-L14	9	1
S10420-1106	IS229-424-400T4-R29-L14	9	1
S3091-512FX	IS229-422-01S-R29-L14	9	1
S3901-128Q	IS229-422-01S-R29-L14	9	1
S3901-256F	IS229-422-01S-R29-L14	9	1
S3901-256FX	IS229-422-01S-R29-L14	9	1
S3901-256Q	IS229-422-01S-R29-L14	9	1
S3901-512F	IS229-422-01S-R29-L14	9	1
S3901-512Q	IS229-422-01S-R29-L14	9	1
S3901-1024Q	IS231-622-01S-R29-L14	10	7
S3902-128Q	IS229-422-01S-R29-L14	9	1
S3902-256Q	IS229-422-01S-R29-L14	9	1
S3902-512Q	IS229-422-01S-R29-L14	9	1
S3903-256Q	IS229-422-01S-R29-L14	9	1
S3903-512Q	IS229-422-01S-R29-L14	9	1
S3903-1024Q	IS229-422-01S-R29-L14	9	1
S3904-256Q	IS229-422-01S-R29-L14	9	1
S3904-512F	IS229-422-01S-R29-L14	9	1
S3904-512Q	IS229-422-01S-R29-L14	9	1
S3904-1024F	IS229-422-01S-R29-L14	9	1
S3904-1024Q	IS229-422-01S-R29-L14	9	1
S3904-2048Q	IS231-622-01S-R29-L14	10	7
S3921-128Q	IS229-422-01S-R29-L14	9	1
S3921-256Q	IS229-422-01S-R29-L14	9	1
S3921-512Q	IS229-422-01S-R29-L14	9	1
S3922-128Q	IS229-422-01S-R29-L14	9	1
S3922-256Q	IS229-422-01S-R29-L14	9	1
S3922-512Q	IS229-422-01S-R29-L14	9	1
S3923-256Q	IS229-422-01S-R29-L14	9	1

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S3923-1024Q	IS229-422-01S-R29-L14	9	1
S3924-256Q	IS229-422-01S-R29-L14	9	1
S3924-512Q	IS229-422-01S-R29-L14	9	1
S3924-1024Q	IS229-422-01S-R29-L14	9	1
S5930-256S	IS229-622-01S-R29-L14	9	1
S5930-512S	IS229-624-01S-R29-L14	9	1
S5931-512S	IS229-622-01S-R29-L14	9	1
S5931-1024S	IS229-624-01S-R29-L14	9	1
S7010-0906	IS229-424-80S-R29-L14	9	1
S7010-0907	IS229-424-80S-R29-L14	9	1
S7010-0908	IS229-624-80S-R29-L14	9	1
S7010-1006	IS229-424-80S-R29-L14	9	1
S7010-1007	IS229-424-80S-R29-L14	9	1
S7010-1008	IS229-624-80S-R29-L14	9	1
S7011-0906	IS229-624-80S-R29-L14	9	1
S7011-0907	IS229-624-80S-R29-L14	9	1
S7011-1006	IS229-624-80S-R29-L14	9	1
S7011-1007	IS229-624-80S-R29-L14	9	1
S7015-0908	IS229-9124-80S-R29-L14	9	1
S7015-1008	IS229-9124-80S-R29-L14	9	1
S7017-1007	IS229-2024-80S-R29-L14	9	1
S7017-1008	IS229-2024-80S-R29-L14	9	1
S7018-1010	575-13-83-048-80S-R29-L14	13	18
S7019-1009	575-13-83-048-80S-R29-L14	13	18
S7030-0906	IS229-924-01S-R29-L14	9	1
S7030-0907	IS229-924-01S-R29-L14	9	1
S7030-0908	IS229-924-01S-R29-L14	9	1
S7030-1006	IS229-924-01S-R29-L14	9	1
S7030-1007	IS229-924-01S-R29-L14	9	1
S7030-1008	IS229-924-01S-R29-L14	9	1
S7031-0906	IS229-924-01S-R29-L14	9	1
S7031-0906S	IS229-924-01S-R29-L14	9	1
S7031-0907	IS229-924-01S-R29-L14	9	1
S7031-0907S	IS229-924-01S-R29-L14	9	1
S7031-0908	IS229-924-01S-R29-L14	9	1
S7031-0908S	IS229-924-01S-R29-L14	9	1
S7031-1006	IS229-924-01S-R29-L14	9	1
S7031-1006S	IS229-924-01S-R29-L14	9	1
S7031-1007	IS229-924-01S-R29-L14	9	1
S7031-1007S	IS229-924-01S-R29-L14	9	1
S7031-1008	IS229-924-01S-R29-L14	9	1
S7031-1008S	IS229-924-01S-R29-L14	9	1
S7033-0907	IS229-924-01S-R29-L14	9	1
S7033-1007	IS229-924-01S-R29-L14	9	1
S7034-0907	IS229-924-01S-R29-L14	9	1
S7034-0907S	IS229-924-01S-R29-L14	9	1
S7034-1007	IS229-924-01S-R29-L14	9	1
S7034-1007S	IS229-924-01S-R29-L14	9	1
S7170-0909	IS229-924-01S-R29-L14	9	1
S7171-0909	IS229-924-01S-R29-L14	9	1
S7199-01	IS231-1040-01S-R29-L14	11	43
S7847-1007	IS229-2024-80S-R29-L14	9	1
S7847-1008	IS229-2024-80S-R29-L14	9	1
S7960-1008	IS229-924-01S-R29-L14	9	1
S7961-1008	IS229-924-01S-R29-L14	9	1
S7986-01	IS229-924-01S-R29-L14	9	1
S7987-01	IS229-924-01S-R29-L14	9	1
S8377-256Q	IS229-308-01S-R29-L14	9	1
S8377-512Q	IS229-308-01S-R29-L14	9	1
S8378-256Q	IS229-308-01S-R29-L14	9	1
S8378-512Q	IS229-308-01S-R29-L14	9	1
S8379-1024Q	IS229-308-01S-R29-L14	9	1
S8380-256Q	IS229-422-01S-R29-L14	9	1
S8380-512Q	IS229-422-01S-R29-L14	9	1
S8381-256Q	IS229-422-01S-R29-L14	9	1
S8381-512Q	IS229-422-01S-R29-L14	9	1

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S8380-128Q	IS229-422-01S-R29-L14	9	1
S8381-1024Q	IS229-422-01S-R29-L14	9	1
S8550	585-07-02-034-211MR29-L14	19	31
S8658-01	IS231-1060-01S-R29-L14	Contact	Factory
S8665-0909	IS229-2024-80S-R29-L14	9	1
S8844-0909	IS229-924-01S-R29-L14	9	1
S9037-0902N	IS229-924-01S-R29-L14	9	1
S9037-1002	IS229-924-01S-R29-L14	9	1
S9037-1002N	IS229-924-01S-R29-L14	9	1
S9037-902	IS229-924-01S-R29-L14	9	1
S9038-0902	IS229-924-01S-R29-L14	9	1
S9038-0902N	IS229-924-01S-R29-L14	9	1
S9038-0902S	IS229-924-01S-R29-L14	9	1
S9038-1002	IS229-924-01S-R29-L14	9	1
S9038-1002N	IS229-924-01S-R29-L14	9	1
S9038-1002S	IS229-924-01S-R29-L14	9	1
S9226	IS229-308-01S-R29-L14	9	1
S9377-128Q	IS229-308-01S-R29-L14	9	1
S9736-01	IS229-924-01S-R29-L14	9	1
S9736-02	IS229-2024-80S-R29-L14	9	1
S9737-01	IS229-924-01S-R29-L14	9	1
S9737-02	IS229-2024-80S-R29-L14	9	1
S9840	IS229-322-01S-R29-L14	9	1
S9970-0906	IS229-424-01S-R29-L14	9	1
S9970-1006	IS229-424-80S-R29-L14	9	1
S9970-1007	IS229-424-80S-R29-L14	9	1
S9970-1008	IS229-624-01S-R29-L14	9	1
S9971-0906	IS229-624-01S-R29-L14	9	1
S9971-1006	IS229-624-01S-R29-L14	9	1
S9971-1007	IS229-624-01S-R29-L14	9	1
S9971-1008	IS229-924-01S-R29-L14	9	1
S9972-1007	IS229-424-01S-R29-L14	9	1
S9972-1008	IS229-624-01S-R29-L14	9	1
S9973-1007	IS229-624-01S-R29-L14	9	1
S9973-1008	IS229-924-01S-R29-L14	9	1
S9978	IS229-924-01S-R29-L14	9	1
S9979	IS229-628-80S-R29-L14	9	1

Kilburn Isotronics			
Kilburn Isotronics Part	Andon Part Number	Page	Fig.
KTP-17001700-060-001	575-16-25-060-88S-R29-L14	14	32

Kodak			
Kodak Part Number	Andon Part Number	Page	Fig.
Dual Device Socket *	IS230D-97134-75M-R29-L14-A	17	41
KAC-02000A	620-100-SM-G10-L14-X	19	23
KAC-6619M	680-48-SM-G10-R14-X	19	23
KAC-9618	680-48-SM-G10-R14-X	19	23
KAC-9619	680-48-SM-G10-R14-X	19	23
KAC-9628	680-48-SM-G10-R14-X	19	23
KAF-0261E	IS229-824-01S-R29-L14-A	10	1A
KAF-0402E	IS229-824-01S-R29-L14-A	10	1A
KAF-09000	IS229-2034-80S-R29-L14	9	1
KAF-1001E	IS229-1426-01S-R29-L14	9	1
KAF-10500	IS229-1060D-01S-R29-L14	11	3
KAF-1603	IS230-6367D-75M-R29-L14-A	16	38
KAF-16801E	IS229-2034-80S-R29-L14	9	1
KAF-16802CE	IS229-2034-80S-R29-L14	9	1
KAF-16803	IS229-2034-80S-R29-L14	9	1
KAF-18000	IS230-18860-75S-R29-L14	15	6
KAF-22000CE	IS229-2044-80S-R29-L14	9	1
KAF-31600	IS230-18860-75S-R29-L14	15	6
KAF-3200E	IS229-824-01S-R29-L14-A	10	1A

*accepts KAI-01050, KAI-02050, KAI-02150 or KAI-08050

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Kodak continued

Kodak Part Number	Andon Part Number	Page	Fig.
KAF-3200ME	IS229-824-01S-R29-L14-A	10	1A
KAF-39000	IS230-2064-75S-R29-L14	15	6
KAF-4202	IS229-1226-80S-R29-L14	9	1
KAF-4301E	405-20-01S-R29-L14 (QTY 2)	12	10
KAF-4320	Contact Factory		
KAF-50100	IS229-1752D-01S-R29-L14	10	39
KAF-6303E	IS229-8826-01S-R29-L14	9	1
KAF-8300	IS230-832-75S-R29-L14	15	6A
KAI-01050	IS230-6367D-75S-R29-L14-A	16	38
KAI-02050	IS230-6367D-75M-R29-L14-A	16	38
KAI-02150	IS230-6367D-75M-R29-L14-A	16	38
KAI-0330D	IS230-420-75S-R29-L14	15	6
KAI-0340D	IS232-522-274U-R29-L14	18	8
KAI-0373	IS229-824-01S-R29-L14-A	10	1A
KAI-04022	IS230-1340-75M-R29-L14	15	6
KAI-08050	IS230-9767D-75M-R29-L14-A	16	40
KAI-1003M	IS229-1028-01S-R29-L14-A	10	1A
KAI-1010	IS229-824-01S-R29-L14-A	10	1A
KAI-10100	IS230-832-75S-R29-L14	15	6
KAI-1020 LCC	680-64-SM-G10-R14-X	19	23
KAI-1020 PGA	575-11-42-068-01S-R29-L14	13	15
KAI-11000	IS230-1340-75S-R29-L14	15	6
KAI-11000C	IS230-1340-75S-R29-L14	15	6
KAI-11000CM	IS230-1340-75S-R29-L14	15	6
KAI-11002	IS230-1340-75S-R29-L14	15	6
KAI-1600	IS230-1340-75M-R29-L14	15	6
KAI-16000	IS230-1340-75M-R29-L14	15	6
KAI-1800	IS230-18860-75S-R29-L14	15	6
KAI-2001	IS230-832-75S-R29-L14-A	15	6A
KAI-2020	IS230-832-75S-R29-L14-A	15	6A
KAI-2093M	IS230-832-75S-R29-L14-A	15	6A
KAI-31600	IS230-18860-75S-R29-L14	15	6
KAI-4010M	IS230-1034-75S-R29-L14-A	15	6A
KAI-4011	IS230-1034-75S-R29-L14-A	15	6A
KAI-4021	IS230-1034-75S-R29-L14-A	15	6A
KAI-4021CM	IS230-1034-75S-R29-L14-A	15	6A
KAI-4021M	IS230-1034-75S-R29-L14-A	15	6A
KLI-10203	IS231-6140-01S-R29-L14	10	7
KLI-14403	IS231-6140-01S-R29-L14	10	7
KLI-2113	IS229-6128-01S-R29-L14	9	1
KLI-4104	IS233-4146-75S-R29-L14	16	9
KLI-5001	IS229-6124-01S-R29-L14	9	1
KLI-8023	IS231-6140-01S-R29-L14	10	7

Kyocera

Kyocera Part Number	Andon Part Number	Page	Fig.
KD-DA6014-A	620-84-SM-G10-L14-X	19	23
KD-S88423-B	IS229-640-01S-R29-S12	9	1
PB-C86131	620-84-SM-G10-L14-1	19	23
PB-C97222	620-20-SM-G10-L14-0	19	23
PB-F86315	710-44-SM-T Contact Factory		
PB-12832-B	620-44-SM-G10-L14-X	19	23
PB-13046-A	620-28-SM-G10-L14-0	19	23

Micron

Micron Part Number	Andon Part Number	Page	Fig.
MT9D131	680-48-SM-G10-R14-X	19	23
MT9M001	680-48-SM-G10-R14-X	19	23
MT9M001C12STC	680-48-SM-G10-R14-X	19	23
MT9M413	575-19-25-281-01M-R29-L14	14	33
MT9M413C36STC	575-19-25-281-01M-R29-L14	14	33
MT9V011	620-28-SM-G10-L14-X	19	23
MT9V030C12ST	680-48-SM-G10-R14-X	19	23
MT9V043_00STC	680-48-SM-G10-R14-X	19	23
MT9V403	680-48-SM-G10-R14-X	19	23

Motorola

Motorola Part Number	Andon Part Number	Page	Fig.
MCM 20014	680-48-SM-G10-R14-X	19	23
MCM 20027	680-48-SM-G10-R14-X	19	23

National Semiconductor

National Semiconductor	Andon Part Number	Page	Fig.
LM9617CCEA	680-48-SM-G10-R14-X	19	23
LM9617CCEA-2	680-48-SM-G10-R14-X	19	23
LM9627CCEA	680-48-SM-G10-R14-X	19	23
LM9627CCEA-2	680-48-SM-G10-R14-X	19	23
LM9648CEA	680-48-SM-G10-R14-X	19	23

NEC

NEC Part Number	Andon Part Number	Page	Fig.
μPD3728DZ	IS231-636-01S-R29-L14	10	7
μPD3734A	IS229-422-80S-R29-L14	9	1
μPD3737	IS229-422-80S-R29-L14	9	1
μPD3739	IS229-422-80S-R29-L14	9	1
μPD3747	IS229-422-80S-R29-L14	9	1
μPD3753	IS229-422-80S-R29-L14	9	1
μPD3768	IS231-636-01S-R29-L14	10	7
μPD3778	IS229-432-80S-R29-L14	9	1
μPD3788	IS231-636-01S-R29-L14	10	7
μPD3798	IS229-432-80S-R29-L14	9	1
μPD3799	IS229-432-80S-R29-L14	9	1
μPD8861	IS229-422-80S-R29-L14	9	1
μPD8870	IS229-432-80S-R29-L14	9	1
μPD8871	IS229-432-80S-R29-L14	9	1

OSI Optoelectronics

OSI Optoelectronics Part	Andon Part Number	Page	Fig.
UDT-4X4D	680-40-SM-G10-L14-0	19	23

Panavision

Panavision Part Number	Andon Part Number	Page	Fig.
ELIS-1024-D-ES	IS229-316-01S-R29-L14	9	1

Peripheral

Peripheral Part Number	Andon Part Number	Page	Fig.
PI0128WSN	IS229-422-01S-R29-L14	9	1
PI0256HSN	IS229-422-01S-R29-L14	9	1
PI0256WSN	IS229-422-01S-R29-L14	9	1
PI0512HSN	IS229-422-01S-R29-L14	9	1
PI0512WS	IS229-422-01S-R29-L14	9	1
PI0512WSN	IS229-422-01S-R29-L14	9	1
PI1024HSN	IS229-422-01S-R29-L14	9	1

Perkin Elmer

Perkin Elmer Part Number	Andon Part Number	Page	Fig.
HL2048P	IS229-420-01S-R29-L14	9	1
HL4096P	IS231-428-01S-R29-L14	10	7
RA1133J	IS229-1330-01M-R29-L14	9	1
RL1201	IS229-422-01S-R29-L14	9	1
RL1502	IS229-422-01S-R29-L14	9	1
RL1505	IS229-422-01S-R29-L14	9	1

Philips

Philips Part Number	Andon Part Number	Page	Fig.
FT 18	IS230-632-75S-R29-L14	15	6
FTF3020-C	575-20-16-096-01S-R29-L14	13	22
FTF3020-M	575-20-16-096-01S-R29-L14	13	22
FTT1010-M	575-15-63-080-01S-R29-L14	13	20
SA5212A	IS229-308-01S-R29-L14	9	1
SAA4981	IS229-624-01S-R29-L14	9	1
SCC2691	IS229-324-01S-R29-L14	9	1

Samsung

Samsung Part Number	Andon Part Number	Page	Fig.
S5f329PW02	IS230-416-75S-R29-L14	15	6

SiTe

SiTe Part Number	Andon Part Number	Page	Fig.
SI-003A	575-15-64-056-88S-R29-L14	13	21
SI-502A	575-12-22-044-88S-R29-L14	13	17

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Sony			
Sony Part Number	Andon Part Number	Page	Fig.
ICS429ALB	IS232-316-274U-R29-L14	18	8
ICX038DNA	IS230-620-75S-R29-L14	15	6
ICX098BL	IS232-414-274U-R29-L14	18	8
ICX098BQ	IS232-414-274U-R29-L14	18	8
ICX204AK	IS232-4516-274U-R27-L14	18	8
ICX204AL	IS232-4516-274U-R27-L14	18	8
ICX205AK	IS230-620-75S-R29-L14	15	6
ICX205AL	IS230-620-75S-R29-L14	15	6
ICX206AK	IS232-414-274U-R27-L14	18	8
ICX206AKB	R225-1413-01N-400T4-R29-L14	19	34
ICX206AL	IS232-414-274U-R27-L14	18	8
ICX207AK	IS232-414-274U-R27-L14	18	8
ICX207AKB	R225-1413-01N-400T4-R29-L14	19	34
ICX207AL	IS232-414-274U-R27-L14	18	8
ICX224AK	IS232-520-274U-R27-L14	18	8
ICX224AQ	IS232-4820-274U-R27-L14	18	8
ICX226AK	IS232-414-274U-R27-L14	18	8
ICX226AL	IS232-414-274U-R27-L14	18	8
ICX227AK	IS232-414-274U-R27-L14	18	8
ICX227AL	IS232-414-274U-R27-L14	18	8
ICX228AK	IS232-414-274U-R27-L14	18	8
ICX228AL	IS232-414-274U-R27-L14	18	8
ICX229AK	IS232-414-274U-R27-L14	18	8
ICX229AL	IS232-414-274U-R27-L14	18	8
ICX232BQ	IS232-416-274U-R27-L14	18	8
ICX252AK	IS232-4820-274U-R27-L14	18	8
ICX252AQ	IS232-4820-274U-R27-L14	18	8
ICX254AK	IS232-4516-274U-R27-L14	18	8
ICX254AL	IS232-4516-274U-R27-L14	18	8
ICX255AK	IS232-4516-274U-R27-L14	18	8
ICX255AL	IS232-4516-274U-R27-L14	18	8
ICX258AK	IS232-4516-274U-R27-L14	18	8
ICX258AL	IS232-4516-274U-R27-L14	18	8
ICX259AK	IS232-4516-274U-R27-L14	18	8
ICX259AL	IS232-4516-274U-R27-L14	18	8
ICX262AQ	IS232-4820-274U-R27-L14	18	8
ICX267AK	IS232-4820-274U-R27-L14	18	8
ICX274AL	IS232-4820-274U-R27-L14	18	8
ICX278AK	IS232-414-274U-R27-L14	18	8
ICX278AL	IS232-414-274U-R27-L14	18	8
ICX279AK	IS232-414-274U-R27-L14	18	8
ICX282AK	IS232-5724-274U-R27-L14	18	8
ICX282AQ	IS232-5724-274U-R27-L14	18	8
ICX284AK	IS232-4516-274U-R27-L14	18	8
ICX284AQ	IS232-4516-274U-R27-L14	18	8
ICX285AL	IS229-820-80S-R29-L14	9	1
ICX285AQ	IS229-820-80S-R29-L14	9	1
ICX404AK	IS232-4516-274U-R27-L14	18	8
ICX404AL	IS232-4516-274U-R27-L14	18	8
ICX405AK	IS232-4516-274U-R27-L14	18	8
ICX405AL	IS232-4516-274U-R27-L14	18	8
ICX406AQ	IS232-4820-274U-R27-L14	18	8
ICX408AK	IS232-4516-274U-R27-L14	18	8
ICX408AL	IS232-4516-274U-R27-L14	18	8
ICX409AK	IS232-4516-274U-R27-L14	18	8
ICX409AL	IS232-4516-274U-R27-L14	18	8
ICX412AQ	IS232-4820-274U-R27-L14	18	8
ICX414-AL	IS232-622-274U-R27-L14	18	8
ICX414AQ	IS232-622-274U-R27-L14	18	8
ICX415AL	IS232-622-274U-R27-L14	18	8
ICX415AQ	IS232-622-274U-R27-L14	18	8
ICX418AKB	IS232-316-274U-R27-L14	18	8
ICX418AKL	IS230-620-75S-R29-L14	15	6
ICX418ALL	IS230-620-75S-R29-L14	15	6
ICX419AKB	IS232-316-274U-R27-L14	18	8
ICX419AKL	IS230-620-75S-R29-L14	15	6
ICX419ALB	IS232-316-274U-R27-L14	18	8
ICX419ALL	IS230-620-75S-R29-L14	15	6
ICX422AL	IS229-820-80S-R29-L14	9	1
ICX423AL	IS229-820-80S-R29-L14	9	1

Sony continued			
Sony Part Number	Andon Part Number	Page	Fig.
ICX424AL	IS232-4516-274U-R27-L14	18	8
ICX424AQ	IS232-4516-274U-R27-L14	18	8
ICX428AKL	IS230-620-75S-R29-L14	15	6
ICX428ALB	IS232-316-274U-R27-L14	18	8
ICX428ALL	IS230-620-75S-R29-L14	15	6
ICX429AKL	IS230-620-75S-R29-L14	15	6
ICX429ALL	IS230-620-75S-R29-L14-A	15	6A
ICX432DQ	IS0437SP-418-C4-G10-L14	19	45
ICX434AQ	IS232-4516-274U-R27-L14	18	8
ICX445ALA	IS232-5724-274U-R27-L14	18	8
ICX625ALA	IS0437SP-5728-C4-G10-L14	19	44
ICX655ALA	IS0437SP-5728-C4-G10-L14	19	44
ILX551A	IS229-422-80S-R29-L14	9	1
ILX551B	IS229-422-80S-R29-L14	9	1
ILX553A	IS229-422-80S-R29-L14	9	1
ILX553B	IS229-422-80S-R29-L14	9	1
ILX554B	IS229-422-80S-R29-L14	9	1
ILX555K	IS229-422-80S-R29-L14	9	1
ILX558K	IS229-422-80S-R29-L14	9	1
ILX569K	IS229-422-80S-R29-L14	9	1
ILX585K	IS233-424-75S-R29-L14	16	9
ILX751A	IS229-422-80S-R29-L14	9	1
ILX751B	IS229-422-80S-R29-L14	9	1
ISX205AK	IS230-620-75S-R29-L14	15	6

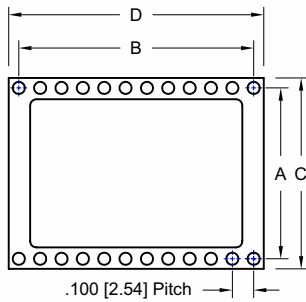
TI			
TI Part Number	Andon Part Number	Page	Fig.
TC211	IS229-306-01S-R29-L14	9	1
TC217	IS229-422-88S-R29-L14-A	10	1A
TC237B	IS230-4512-75S-R29-L14	15	6
TC241	IS229-422-88S-R29-L14-A	10	1A
TC246	IS230-724-75S-R29-L14-A	15	6A
TC247	IS230-724-75S-R29-L14-A	15	6A
TC253	IS230-4512-75S-R29-L14	15	6
TC255	IS229-408-01S-R29-L14	9	1
TC281	IS229-722-80S-R29-L14-A	10	1A
TC285SPD-31	IS230-828-75S-R29-L14	15	6
TC341	IS229-722-80S-R29-L14-A	10	1A

Toshiba			
Toshiba Part Number	Andon Part Number	Page	Fig.
TCD1201D	IS229-422-01S-R29-L14	9	1
TCD1205D	IS229-422-01S-R29-L14	9	1
TCD1304AP	IS229-422-80S-R29-L14	9	1
TCD1500C	IS229-422-01S-R29-L14	9	1
TCD1501C	IS229-422-01S-R29-L14	9	1
TCD1502C	IS229-422-01S-R29-L14	9	1
TCD1702C	IS229-422-01S-R29-L14	9	1
TCD1707D	IS229-422-01S-R29-L14	9	1

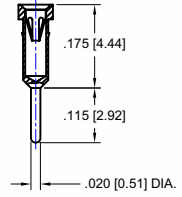
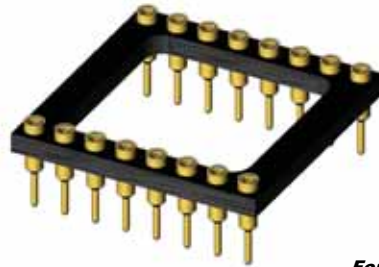
.100 [2.54] Pitch Image Sensor DIP Sockets

-100 [2.54] Pitch

Fig.1



Top View Shown
Units: in [mm]



- 01 Terminal Shown

For Terminal Details or other Terminal Types see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS229-306-01S-R29-L14	93S	1	6	.300 (7.62)	.200 (5.08)	.397 (10.08)	.297 (7.54)
IS229-308-01S-R29-L14	93S	1	8	.300 (7.62)	.300 (7.62)	.397 (10.08)	.397 (10.08)
IS229-316-01S-R29-L14	93S	1	16	.300 (7.62)	.700 (17.78)	.397 (10.08)	.797 (20.24)
IS229-318-01S-R29-L14	93S	1	18	.300 (7.62)	.800 (20.32)	.397 (10.08)	.897 (22.78)
IS229-324-01S-R29-L14	93S	1	24	.300 (7.62)	1.100 (27.94)	.397 (10.08)	1.197 (30.40)
IS229-408-01S-R29-L14	93S	1	8	.400 (10.16)	.300 (7.62)	.497 (12.62)	.397 (10.08)
IS229-420-01S-R29-L14	93S	1	20	.400 (10.16)	.900 (22.86)	.497 (12.62)	.997 (25.32)
IS229-422-01S-R29-L14	93S	1	22	.400 (10.16)	1.000 (25.40)	.497 (12.62)	1.097 (27.86)
IS229-422-80S-R29-L14	93S	1	22	.400 (10.16)	1.000 (25.40)	.497 (12.62)	1.097 (27.86)
IS229-424-80S-R29-L14	93S	1	24	.400 (10.16)	1.100 (27.94)	.497 (12.62)	1.197 (30.40)
IS229-424-400T4-R29-L14	414T4	1	24	.400 (10.16)	1.100 (27.94)	.497 (12.62)	1.197 (30.40)
IS229-432-80S-R29-L14	93S	1	32	.400 (10.16)	1.500 (38.10)	.497 (12.62)	1.597 (40.56)
IS229-620-01S-R29-L14	93S	1	20	.600 (15.24)	.900 (22.86)	.697 (17.70)	.997 (25.32)
IS229-622-01S-R29-L14	93S	1	22	.600 (15.24)	1.000 (25.40)	.697 (17.70)	1.097 (27.86)
IS229-624-01S-R29-L14	93S	1	24	.600 (15.24)	1.100 (27.94)	.697 (17.70)	1.197 (30.40)
IS229-624-80S-R29-L14	93S	1	24	.600 (15.24)	1.100 (27.94)	.697 (17.70)	1.197 (30.40)
IS229-628-80S-R29-L14	93S	1	28	.600 (15.24)	1.300 (33.02)	.697 (17.70)	1.397 (35.48)
IS229-640-01S-R29-L14	93S	1	40	.600 (15.24)	1.900 (48.26)	.697 (17.70)	1.997 (50.72)
IS229-650-01S-R29-L14	93S	1	50	.600 (15.24)	2.400 (60.96)	.697 (17.70)	2.497 (63.42)
IS229-656-01S-R29-L14	93S	1	56	.600 (15.24)	2.700 (68.58)	.697 (17.70)	2.797 (71.04)
IS229-6120-80S-R29-L14	93S	1	20	.610 (15.49)	.900 (22.86)	.707 (17.96)	.997 (25.32)
IS229-6124-01S-R29-L14	93S	1	24	.610 (15.49)	1.100 (27.94)	.707 (17.96)	1.197 (30.40)
IS229-6128-01S-R29-L14	93S	1	28	.610 (15.49)	1.300 (33.02)	.707 (17.96)	1.397 (35.48)
IS229-6140-01S-R29-L14	93S	1	40	.610 (15.49)	1.900 (48.26)	.707 (17.96)	1.997 (50.72)
IS229-820-80S-R29-L14	93S	1	20	.800 (20.32)	.900 (22.86)	.897 (22.78)	.997 (25.32)
IS229-824-01S-R29-L14	93S	1	24	.800 (20.32)	1.100 (27.94)	.897 (22.78)	1.197 (30.40)
IS229-826-01S-R29-L14	93S	1	26	.800 (20.32)	1.200 (30.48)	.897 (22.78)	1.297 (32.94)
IS229-828-88S-R29-L14	93S	1	28	.800 (20.32)	1.300 (33.02)	.897 (22.78)	1.397 (35.48)
IS229-8826-01S-R29-L14	93S	1	26	.880 (22.35)	1.200 (30.48)	.977 (24.82)	1.297 (32.94)
IS229-8826-80S-R29-L14	93S	1	26	.880 (22.35)	1.200 (30.48)	.977 (24.82)	1.297 (32.94)
IS229-924-01S-R29-L14	93S	1	24	.900 (22.86)	1.100 (27.94)	.997 (25.32)	1.197 (30.40)
IS229-932-01S-R29-L14	93S	1	32	.900 (22.86)	1.500 (38.10)	.997 (25.32)	1.597 (40.56)
IS229-938-01S-R29-L14	93S	1	38	.900 (22.86)	1.800 (45.72)	.997 (25.32)	1.897 (48.18)
IS229-940-01S-R29-L14	93S	1	40	.900 (22.86)	1.900 (48.26)	.997 (25.32)	1.997 (50.72)
IS229-9124-80S-R29-L14	93S	1	24	.910 (23.11)	1.100 (27.94)	1.007 (25.58)	1.197 (30.40)
IS229-1226-80S-R29-L14	93S	1	26	1.200 (30.48)	1.200 (30.48)	1.297 (32.94)	1.297 (32.94)
IS229-1330-01M-R29-L14	93M	1	30	1.300 (33.02)	1.400 (35.56)	1.397 (35.48)	1.497 (38.02)
IS229-1426-01S-R29-L14	93S	1	26	1.410 (35.81)	1.200 (30.48)	1.507 (38.28)	1.297 (32.94)
IS229-1824-80S-R29-L14	93S	1	24	1.800 (45.72)	1.100 (27.94)	1.897 (48.18)	1.197 (30.40)
IS229-2024-80S-R29-L14	93S	1	24	2.000 (50.80)	1.100 (27.94)	2.097 (53.26)	1.197 (30.40)
IS229-2034-80S-R29-L14	93S	1	34	2.010 (51.05)	1.600 (40.64)	2.107 (53.52)	1.697 (43.10)
IS229-2044-80S-R29-L14	93S	1	44	2.010 (51.05)	2.100 (53.34)	2.107 (53.52)	2.197 (55.80)
IS229-2239-01S-R29-L14	93S	1	39	2.200 (55.88)	1.850 (46.99)	2.297 (58.34)	1.947 (49.45)
IS229-2640-01S-R29-L14	93S	1	40	2.600 (66.04)	1.900 (48.26)	2.697 (68.50)	1.997 (50.72)
9-IS229-2640-01S-R29-L14-SIP	93S	1	40	2.600 (66.04)	1.900 (48.26)	2.697 (68.50)	1.997 (50.72)

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

IS-09B 11/3/09

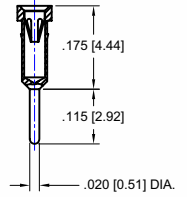
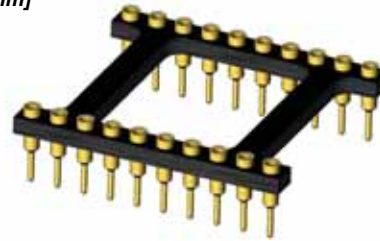
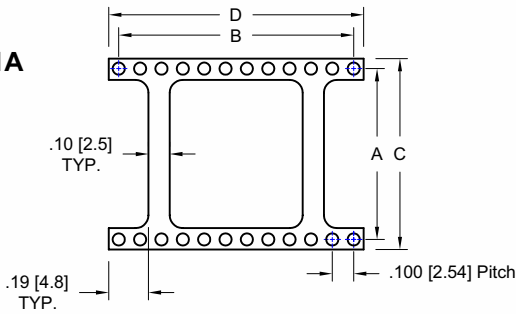
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.100 [2.54] Pitch Image Sensor DIP Sockets

Top View Shown
Units: in [mm]

.100 [2.54] Pitch

Fig.1A

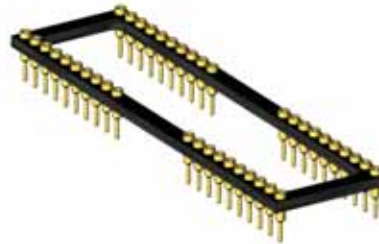
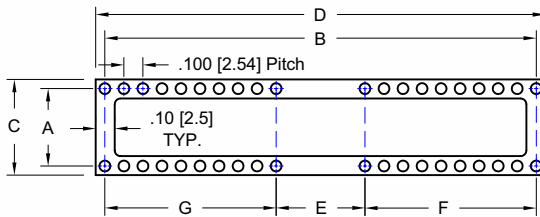


- 01 Terminal Shown

For Terminal Details or other Terminal Types see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS229-422-88S-R29-L14-A	93S	1A	22	.400 (10.16)	1.000 (25.40)	.497 (12.62)	1.097 (27.86)
IS229-722-80S-R29-L14-A	93S	1A	22	.700 (17.78)	1.000 (25.40)	.797 (20.24)	1.097 (27.86)
IS229-820-80S-R29-L14-A	93S	1A	20	.800 (20.32)	.900 (22.86)	.897 (22.78)	.997 (25.32)
IS229-824-01S-R29-L14-A	93S	1A	24	.800 (20.32)	1.100 (27.94)	.897 (22.78)	1.197 (30.40)
IS229-1028-01S-R29-L14-A	93S	1A	28	1.005 (25.53)	1.300 (33.02)	1.102 (27.99)	1.397 (35.48)

Fig.7



Andon Part Number w/Thru-Hole Terminal	SMT	FIG #	Pin QTY.	A	B	C	D	E	F	G
IS231-428-01S-R29-L14	93S	7	28	.400 (10.16)	2.500 (63.50)	.497 (12.62)	2.597 (65.96)	1.300 (33.02)	.600 (15.24)	.600 (15.24)
IS231-622-01S-R29-L14	93S	7	22	.600 (15.24)	1.900 (48.26)	.697 (17.70)	1.997 (50.72)	1.000 (25.40)	.500 (12.70)	.400 (10.16)
IS231-636-01S-R29-L14	93S	7	36	.600 (15.24)	3.500 (88.90)	.697 (17.70)	3.597 (91.36)	1.900 (48.26)	.800 (20.32)	.800 (20.32)
IS231-644-80M-R29-L14	93S	7	44	.600 (15.24)	3.500 (88.90)	.697 (17.70)	3.597 (91.36)	1.500 (38.10)	1.000 (25.40)	1.000 (25.40)
IS231-6140-01S-R29-L14	93S	7	40	.610 (15.49)	2.500 (63.50)	.707 (17.96)	2.597 (65.96)	.700 (17.78)	.900 (22.86)	.900 (22.86)

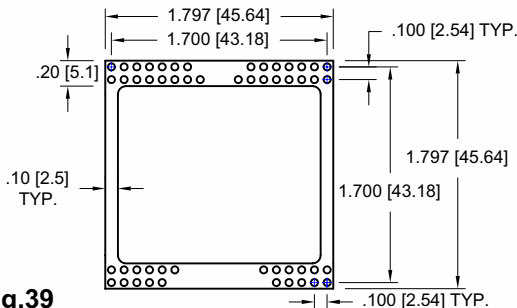


Fig.39

52 Pins

Thru-Hole: IS229-1752D-01S-R29-L14

Surface Mount: IS229-1752D-93S-R29-L14

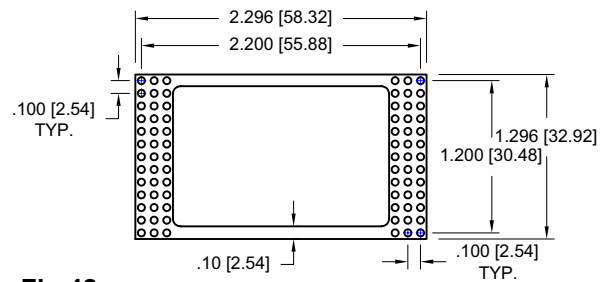


Fig.42

78 Pins

Thru-Hole: IS229-2278T-01M-R29-L14

Surface Mount: IS229-2278T-93M-R29-L14

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

IS-09B 11/3/09

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.100 [2.54] Pitch Image Sensor DIP Sockets

Top View Shown
Units: in [mm]

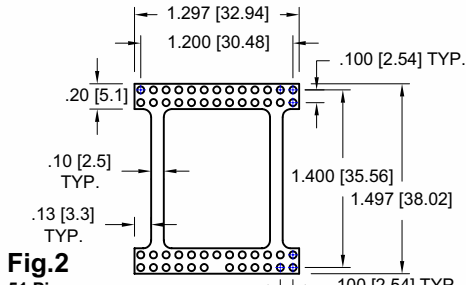


Fig.2

51 Pins

Thru-Hole: IS229-1451D-80S-R29-L14-A

Surface Mount: IS229-1451D-93S-R29-L14-A

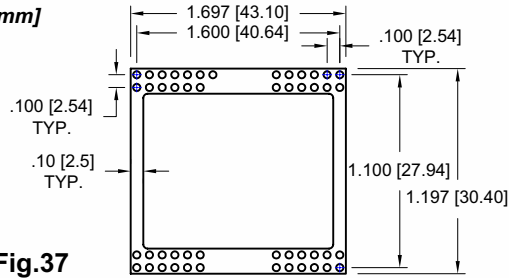


Fig.37

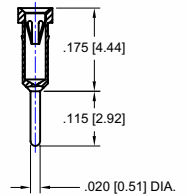
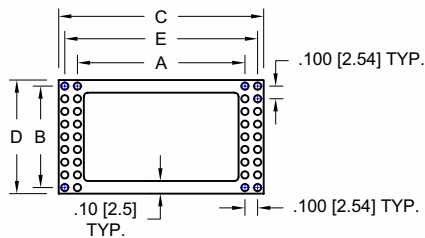
49 Pins

Thru-Hole: IS231-1149D-01S-R29-L14

Surface Mount: IS231-1149D-93S-R29-L14

.100 [2.54] Pitch

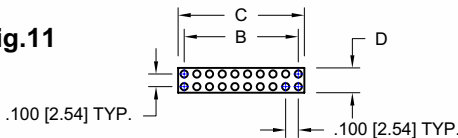
Fig.3



For Terminal Details or other Terminal Types see Page 20 - 01 Terminal Shown

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D	E
IS229-780D-01M-R29-L14	93M	3	80	.500 (12.70)	1.900 (48.26)	.796 (20.22)	1.996 (50.70)	.700 (17.78)
IS229-1060D-01S-R29-L14	93S	3	60	.850 (21.59)	1.400 (29.11)	1.146 (29.10)	1.496 (37.99)	1.050 (26.67)
IS229-1536D-01S-R29-L14	93S	3	36	1.320 (33.53)	.800 (20.32)	1.616 (41.05)	.896 (22.76)	1.520 (38.61)
IS229-1639D-80M-R29-L14	93M	3	39	1.400 (35.56)	.900 (22.86)	1.696 (43.08)	.996 (25.30)	1.600 (40.64)
IS229-1644D-01S-R29-L14	93S	3	44	1.400 (35.56)	1.000 (25.40)	1.696 (43.08)	1.096 (27.84)	1.600 (40.64)
IS229-1944D-01S-R29-L14	93S	3	44	1.700 (43.18)	1.000 (25.40)	1.996 (50.70)	1.096 (27.84)	1.900 (48.26)
IS229-2488D-01S-R29-L14	93S	3	88	2.200 (55.88)	2.100 (53.34)	2.496 (63.39)	2.197 (55.80)	2.400 (62.99)
IS229-3080D-01S-R29-L14	93S	3	80	2.800 (71.12)	1.900 (48.26)	3.096 (78.64)	1.997 (50.72)	3.000 (76.20)

Fig.11



Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	B	C	D
409-209-01S-R29-L14	93S	11	18	.800 (20.32)	.897 (22.78)	.196 (4.98)
409-210-80S-R29-L14	93S	11	20	.900 (22.86)	.900 (22.86)	.196 (4.98)
409-211-01S-R29-L14	93S	11	22	1.000 (25.40)	1.000 (25.40)	.196 (4.98)
409-213-80S-R29-L14	93S	11	26	1.200 (30.48)	1.200 (30.48)	.196 (4.98)

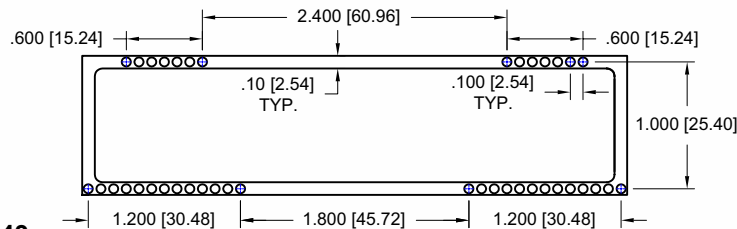


Fig.43

40 Pins

Thru-Hole: IS231-1040-01S-R29-L14

Surface Mount: IS231-1040-93S-R29-L14

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

IS-09B 11/3/09

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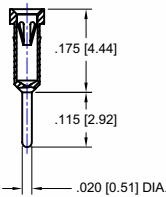
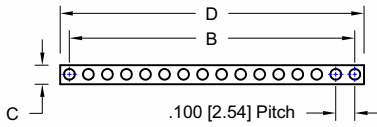
.100 [2.54] Pitch Image Sensor SIP Sockets

Top View Shown

Units: in [mm]

.100 [2.54] Pitch

Fig.10



**- 01 Terminal
Shown**

For Terminal Details or other
Terminal Types see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	B	C	D
405-03-01S-R29-L14	93S	10	3	.200 (5.08)	.100 (2.54)	.297 (7.54)
405-03-80S-R29-L14	93S	10	3	.200 (5.08)	.100 (2.54)	.297 (7.54)
405-04-01S-R29-L14	93S	10	4	.300 (7.62)	.100 (2.54)	.397 (10.08)
405-04-80S-R29-L14	93S	10	4	.300 (7.62)	.100 (2.54)	.397 (10.08)
405-05-01S-R29-L14	93S	10	5	.400 (10.16)	.100 (2.54)	.497 (12.62)
405-05-80S-R29-L14	93S	10	5	.400 (10.16)	.100 (2.54)	.497 (12.62)
405-06-01S-R29-L14	93S	10	6	.500 (12.70)	.100 (2.54)	.597 (15.16)
405-06-80S-R29-L14	93S	10	6	.500 (12.70)	.100 (2.54)	.597 (15.16)
405-07-01S-R29-L14	93S	10	7	.600 (15.24)	.100 (2.54)	.697 (17.70)
405-07-80S-R29-L14	93S	10	7	.600 (15.24)	.100 (2.54)	.697 (17.70)
405-08-01S-R29-L14	93S	10	8	.700 (17.78)	.100 (2.54)	.797 (20.24)
405-08-80S-R29-L14	93S	10	8	.700 (17.78)	.100 (2.54)	.797 (20.24)
405-09-01S-R29-L14	93S	10	9	.800 (20.32)	.100 (2.54)	.897 (22.78)
405-09-80S-R29-L14	93S	10	9	.800 (20.32)	.100 (2.54)	.897 (22.78)
405-10-01S-R29-L14	93S	10	10	.900 (22.86)	.100 (2.54)	.997 (25.32)
405-10-80S-R29-L14	93S	10	10	.900 (22.86)	.100 (2.54)	.997 (25.32)
405-11-01S-R29-L14	93S	10	11	1.000 (25.40)	.100 (2.54)	1.097 (27.86)
405-11-80S-R29-L14	93S	10	11	1.000 (25.40)	.100 (2.54)	1.097 (27.86)
405-11-88S-R29-L14	93S	10	11	1.000 (25.40)	.100 (2.54)	1.097 (27.86)
405-12-01S-R29-L14	93S	10	12	1.100 (27.94)	.100 (2.54)	1.197 (30.40)
405-12-80S-R29-L14	93S	10	12	1.100 (27.94)	.100 (2.54)	1.197 (30.40)
405-13-01S-R29-L14	93S	10	13	1.200 (30.48)	.100 (2.54)	1.297 (32.94)
405-13-80S-R29-L14	93S	10	13	1.200 (30.48)	.100 (2.54)	1.297 (32.94)
405-14-01S-R29-L14	93S	10	14	1.300 (33.02)	.100 (2.54)	1.397 (35.48)
405-14-80S-R29-L14	93S	10	14	1.300 (33.02)	.100 (2.54)	1.397 (35.48)
405-14-88S-R29-L14	93S	10	14	1.300 (33.02)	.100 (2.54)	1.397 (35.48)
405-15-01S-R29-L14	93S	10	15	1.400 (35.56)	.100 (2.54)	1.497 (38.02)
405-15-80S-R29-L14	93S	10	15	1.400 (35.56)	.100 (2.54)	1.497 (38.02)
405-16-01S-R29-L14	93S	10	16	1.500 (38.10)	.100 (2.54)	1.597 (40.56)
405-16-80S-R29-L14	93S	10	16	1.500 (38.10)	.100 (2.54)	1.597 (40.56)
405-17-01S-R29-L14	93S	10	17	1.600 (40.64)	.100 (2.54)	1.697 (43.10)
405-17-80S-R29-L14	93S	10	17	1.600 (40.64)	.100 (2.54)	1.697 (43.10)
405-18-01S-R29-L14	93S	10	18	1.700 (43.18)	.100 (2.54)	1.797 (45.64)
405-18-80S-R29-L14	93S	10	18	1.700 (43.18)	.100 (2.54)	1.797 (45.64)
405-19-01S-R29-L14	93S	10	19	1.800 (45.72)	.100 (2.54)	1.897 (48.18)
405-19-80S-R29-L14	93S	10	19	1.800 (45.72)	.100 (2.54)	1.897 (48.18)
405-20-01S-R29-L14	93S	10	20	1.900 (48.26)	.100 (2.54)	1.997 (50.72)
405-20-80S-R29-L14	93S	10	20	1.900 (48.26)	.100 (2.54)	1.997 (50.72)
405-21-01S-R29-L14	93S	10	21	2.000 (50.80)	.100 (2.54)	2.097 (53.26)
405-21-80S-R29-L14	93S	10	21	2.000 (50.80)	.100 (2.54)	2.097 (53.26)
405-22-01S-R29-L14	93S	10	22	2.100 (53.34)	.100 (2.54)	2.197 (55.80)
405-22-80S-R29-L14	93S	10	22	2.100 (53.34)	.100 (2.54)	2.197 (55.80)
405-23-01S-R29-L14	93S	10	23	2.200 (55.88)	.100 (2.54)	2.297 (58.34)
405-23-80S-R29-L14	93S	10	23	2.200 (55.88)	.100 (2.54)	2.297 (58.34)
405-24-01S-R29-L14	93S	10	24	2.300 (58.42)	.100 (2.54)	2.397 (60.88)
405-24-80S-R29-L14	93S	10	24	2.300 (58.42)	.100 (2.54)	2.397 (60.88)
405-25-01S-R29-L14	93S	10	25	2.400 (60.96)	.100 (2.54)	2.497 (63.42)
405-25-80S-R29-L14	93S	10	25	2.400 (60.96)	.100 (2.54)	2.497 (63.42)
405-26-01S-R29-L14	93S	10	26	2.500 (63.50)	.100 (2.54)	2.597 (65.96)
405-26-80S-R29-L14	93S	10	26	2.500 (63.50)	.100 (2.54)	2.597 (65.96)
405-27-01S-R29-L14	93S	10	27	2.600 (66.04)	.100 (2.54)	2.697 (68.50)
405-27-80S-R29-L14	93S	10	27	2.600 (66.04)	.100 (2.54)	2.697 (68.50)
405-28-01S-R29-L14	93S	10	28	2.700 (68.58)	.100 (2.54)	2.797 (71.04)
405-28-80S-R29-L14	93S	10	28	2.700 (68.58)	.100 (2.54)	2.797 (71.04)
405-29-01S-R29-L14	93S	10	29	2.800 (71.12)	.100 (2.54)	2.897 (73.58)
405-29-80S-R29-L14	93S	10	29	2.800 (71.12)	.100 (2.54)	2.897 (73.58)
405-30-01S-R29-L14	93S	10	30	2.900 (73.66)	.100 (2.54)	2.997 (76.12)
405-30-80S-R29-L14	93S	10	30	2.900 (73.66)	.100 (2.54)	2.997 (76.12)

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

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.100 [2.54] Pitch Image Sensor PGA Sockets

Socket Top View Shown

Units: in [mm]

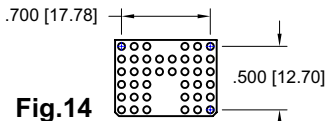


Fig. 14

40 Pins

Thru-Hole: 575-08-04-040-80S-R29-L14

Surface Mount: 575-08-04-040-93S-R29-L14

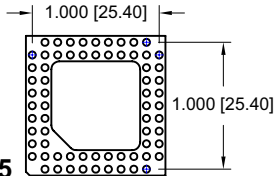


Fig. 15

68 Pins

Thru-Hole: 575-11-42-068-01S-R29-L14

Surface Mount: 575-11-42-068-93S-R29-L14

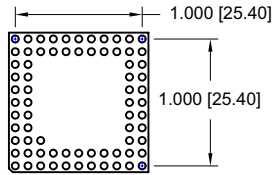


Fig. 16

73 Pins

Thru-Hole: 575-11-57-073-01S-R29-L14

Surface Mount: 575-11-57-073-93S-R29-L14

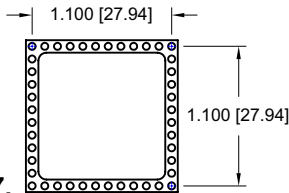


Fig. 17.

44 Pins

Thru-Hole: 575-12-22-044-88S-R29-L14

Surface Mount: 575-12-22-044-93S-R29-L14

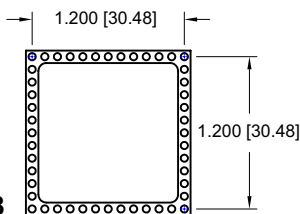


Fig. 18

48 Pins

Thru-Hole: 575-13-83-048-80S-R29-L14

Surface Mount: 575-13-83-048-93S-R29-L14

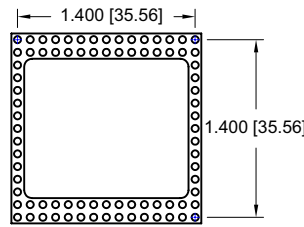


Fig. 19

82 Pins

Thru-Hole: 575-15-62-082-80S-R29-L14

Surface Mount: 575-15-62-082-93S-R29-L14

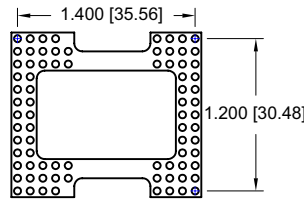


Fig. 20

80 Pins

Thru-Hole: 575-15-63-080-01S-R29-L14

Surface Mount: 575-15-63-080-93S-R29-L14

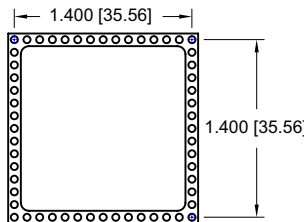


Fig. 21

56 Pins

Thru-Hole: 575-15-64-056-88S-R29-L14

Surface Mount: 575-15-64-056-93S-R29-L14

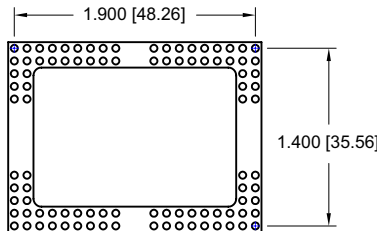
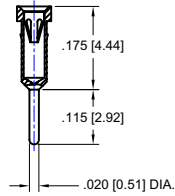


Fig. 22

96 Pins

Thru-Hole: 575-20-16-096-01S-R29-L14

Surface Mount: 575-20-16-096-93S-R29-L14



- 01 Terminal Shown

For Terminal Details or other Terminal Types see Page 20

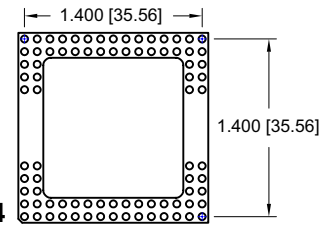


Fig. 24

84 Pins

Thru-Hole: 575-15-65-084-01S-R29-L14

Surface Mount: 575-15-65-084-93S-R29-L14

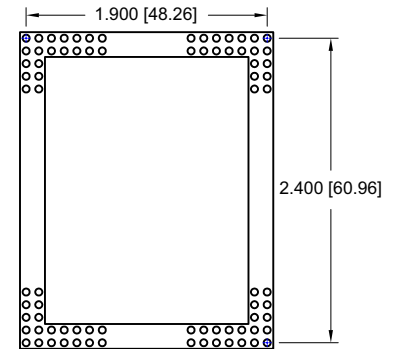


Fig. 25

80 Pins

Thru-Hole: 575-25-04-080-01S-R29-L14

Surface Mount: 575-25-04-080-93S-R29-L14

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

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.100 [2.54] Pitch Image Sensor PGA Sockets

Top View Shown

Units: in [mm]

.100 [2.54] Pitch

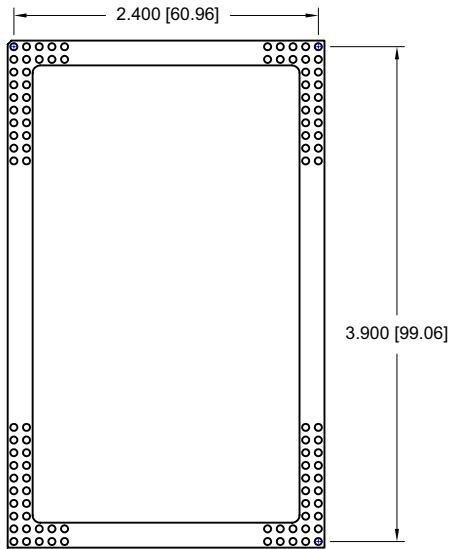


Fig. 26
104 Pins
Thru-Hole: 575-40-02-104-01S-R29-L14
Surface Mount: 575-40-02-104-93S-R29-L14

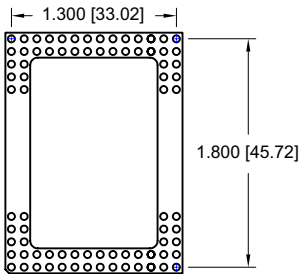


Fig. 27
88 Pins
Thru-Hole: 575-19-27-088-01S-R29-L14
Surface Mount: 575-19-27-088-93S-R29-L14

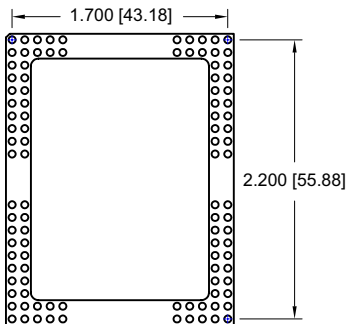


Fig. 28
104 Pins
Thru-Hole: 575-23-02-104-01S-R29-L14
Surface Mount: 575-23-02-104-93S-R29-L14

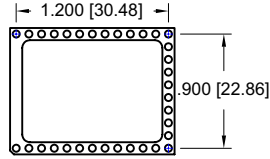


Fig. 29
36 Pins
Thru-Hole: 575-14-39-036-01S-R29-L14
Surface Mount: 575-14-39-036-93S-R29-L14

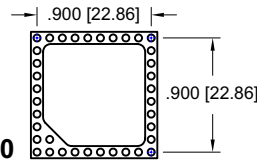


Fig. 30
37 Pins
Thru-Hole: 575-10-19-037-01S-R29-L14
Surface Mount: 575-10-19-037-93S-R29-L14

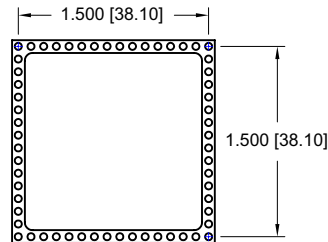


Fig. 32
60 Pins
Thru-Hole: 575-16-25-060-88S-R29-L14
Surface Mount: 575-16-25-060-93S-R29-L14

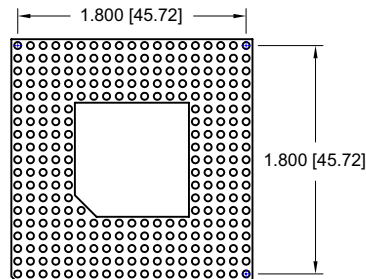
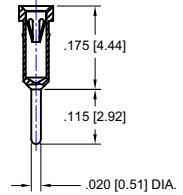


Fig. 33
281 Pins
Thru-Hole: 575-19-25-281-01M-R29-L14
Surface Mount: 575-19-25-281-93M-R29-L14



- 01 Terminal Shown

For Terminal Details or other Terminal Types see Page 20

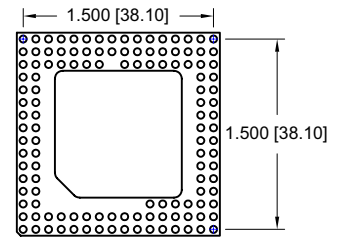


Fig. 35
127 Pins
Thru-Hole: 575-16-24-127-01S-R29-L14
Surface Mount: 575-16-24-127-93S-R29-L14

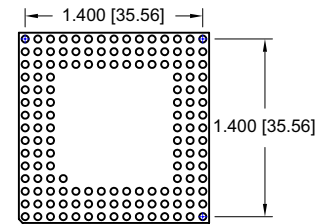


Fig. 36
145 Pins
Thru-Hole: 575-15-28-145-01S-R29-L14
Surface Mount: 575-15-28-145-93S-R29-L14

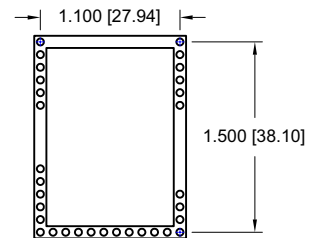


Fig. 46
32 Pins
Thru-Hole: 575-16-26-032-01S-R29-L14
Surface Mount: 575-16-26-032-93S-R29-L14

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

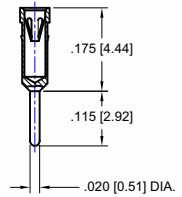
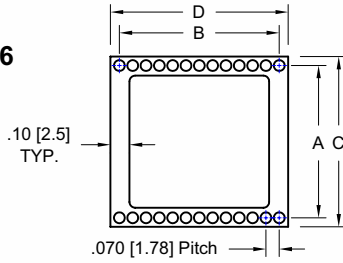
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.070 [1.78] Pitch Image Sensor DIP Sockets

Top View Shown
Units: in [mm]

Fig.6



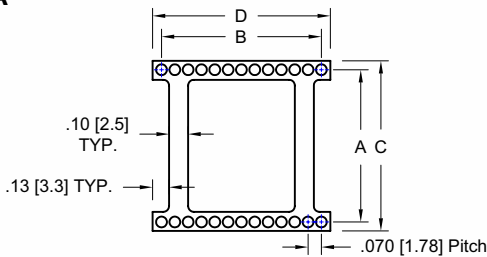
- 75 Terminal Shown

For Terminal Details or other Terminal Types see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS230-416-75S-R29-L14	265S	6	16	.400 (10.16)	.490 (12.45)	.497 (12.62)	.587 (14.91)
IS230-420-75S-R29-L14	265S	6	20	.400 (10.16)	.630 (16.00)	.497 (12.62)	.727 (18.47)
IS230-4512-75S-R29-L14	265S	6	12	.450 (11.43)	.350 (8.89)	.547 (13.89)	.447 (11.35)
IS230-532-75S-R29-L14	265S	6	32	.500 (12.70)	1.050 (26.67)	.597 (15.16)	1.147 (29.13)
IS230-620-75S-R29-L14	265S	6	20	.600 (15.24)	.630 (16.00)	.697 (17.70)	.727 (18.47)
IS230-632-75S-R29-L14	265S	6	32	.600 (15.24)	1.050 (26.67)	.697 (17.70)	1.147 (29.13)
IS230-828-75S-R29-L14	265S	6	28	.800 (20.32)	.910 (23.11)	.897 (22.78)	1.007 (25.58)
IS230-832-75S-R29-L14	265S	6	32	.800 (20.32)	1.050 (26.67)	.897 (22.78)	1.147 (29.13)
IS230-930-75S-R29-L14	265S	6	30	.900 (22.86)	.980 (24.89)	.997 (25.32)	1.077 (27.36)
IS230-934-75S-R29-L14	265S	6	34	.900 (22.86)	1.120 (28.45)	.997 (25.32)	1.217 (30.91)
IS230-1034-75S-R29-L14	265S	6	34	1.000 (25.40)	1.120 (28.45)	1.097 (27.86)	1.217 (30.91)
IS230-1232-75S-R29-L14	265S	6	32	1.200 (30.48)	1.050 (26.67)	1.297 (32.94)	1.147 (29.13)
IS230-1232-400T4-R29-L14	414T4	6	32	1.200 (30.48)	1.050 (26.67)	1.297 (32.94)	1.147 (29.13)
IS230-1340-75S-R29-L14	265S	6	40	1.300 (33.02)	1.330 (33.78)	1.397 (35.48)	1.427 (36.25)
IS230-18860-75S-R29-L14	265S	6	60	1.880 (47.75)	2.030 (51.56)	1.977 (50.22)	2.127 (54.03)
IS230-2064-75S-R29-L14	265S	6	64	2.000 (50.80)	2.170 (55.12)	2.097 (53.26)	2.267 (57.58)
IS230-2640-75S-R29-L14	265S	6	40	2.600 (66.04)	1.330 (33.78)	2.697 (68.50)	1.427 (36.25)

.070 [1.78] Pitch

Fig.6A



Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS230-620-75S-R29-L14-A	265S	6A	20	.600 (15.24)	.630 (16.00)	.697 (17.70)	.727 (18.47)
IS230-724-75S-R29-L14-A	265S	6A	24	.700 (17.78)	.770 (19.56)	.797 (20.24)	.867 (22.02)
IS230-832-75S-R29-L14-A	265S	6A	32	.800 (20.32)	1.050 (26.67)	.897 (22.78)	1.147 (29.13)
IS230-1034-75S-R29-L14-A	265S	6A	34	1.010 (25.65)	1.120 (28.45)	1.107 (28.12)	1.217 (30.91)

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant
Andon Proprietary Information
IS-09B 11/3/09

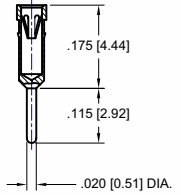
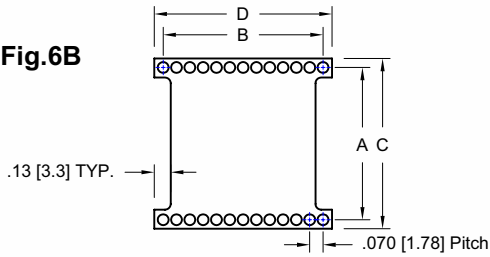
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.070 [1.78] Pitch Image Sensor DIP Sockets

Top View Shown

Units: in [mm]

Fig.6B



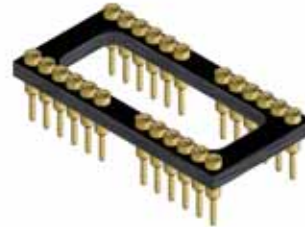
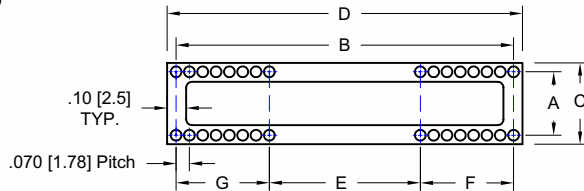
- 75 Terminal
Shown

For Terminal Details or other
Terminal Types see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS230-624-75S-R29-L14-B	265S	6B	24	.600 (15.24)	.770 (19.56)	.697 (17.70)	0.867 (22.02)
IS230-832-75S-R29-L14-B	265S	6B	32	.800 (20.32)	1.050 (26.67)	.897 (22.78)	1.147 (29.13)

.070 [1.78] Pitch

Fig.9



Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D	E	F	G
IS233-424-75S-R29-L14	265S	9	24	.400 (10.16)	.910 (23.11)	.497 (12.62)	1.007 (25.58)	.210 (5.33)	.350 (8.89)	.350 (8.89)
IS233-4146-75S-R29-L14	265S	9	46	.410 (10.41)	2.200 (55.88)	.507 (12.88)	2.297 (58.34)	.730 (18.54)	.770 (19.56)	.700 (17.78)
IS233-532-75S-R29-L14	265S	9	32	.500 (12.70)	2.170 (55.12)	.597 (15.16)	2.267 (57.58)	1.190 (30.23)	.490 (12.45)	.490 (12.45)

.070 [1.78] Pitch Image Sensor Dual Row DIP Sockets

Top View Shown

Units: in [mm]

Fig.38

67 Pins

Thru-Hole: IS230-6367D-75S-R29-L14-A

Surface Mount: IS230-6367D-265S-R29-L14-A

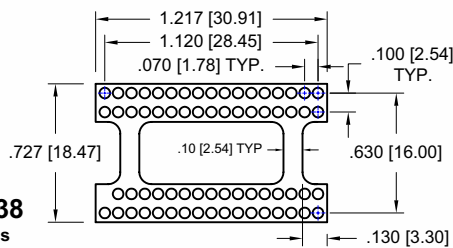
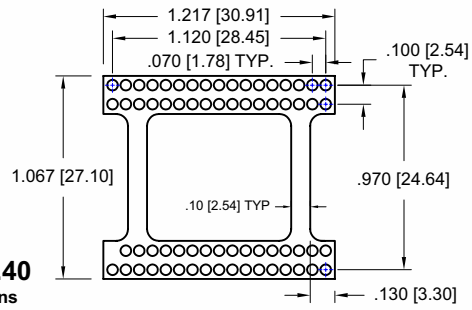


Fig.40

67 Pins

Thru-Hole: IS230-9767D-75M-R29-L14-A

Surface Mount: IS230-9767D-265M-R29-L14-A



For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

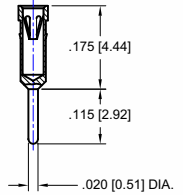
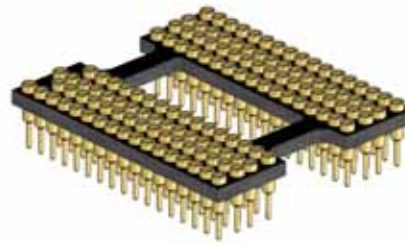
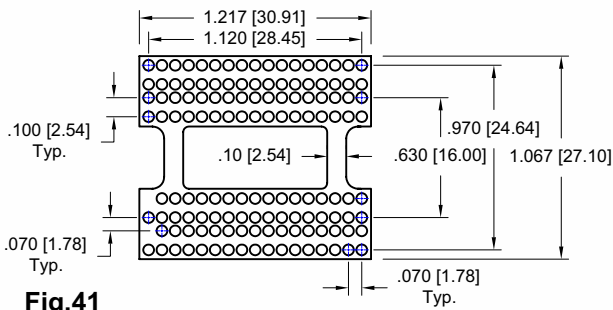
IS-09B 11/3/09

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.070 [1.78] Pitch Image Sensor Dual Device DIP Sockets

Top View Shown

Units: in [mm]



- 75 Terminal
Shown

Fig.41

134 Pins

Thru-Hole: IS230D-97134-75M-R29-L14-A

Surface Mount: IS230D-97134-265M-R29-L14-A

*accepts KAI-01050, KAI-02050, KAI-02150 or KAI-08050

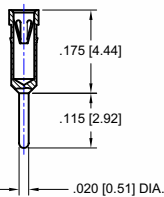
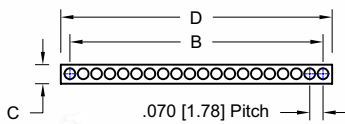
For Terminal Details or other
Terminal Types see Page 20

.070 [1.78] Pitch Image Sensor SIP Sockets

Top View Shown

Units: in [mm]

Fig.12



- 75 Terminal
Shown

For Terminal Details or other
Terminal Styles see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	B	C	D
416-03-75S-R29-L14	265S	12	3	.140 (3.56)	.100 (2.54)	.237 (6.02)
416-04-75S-R29-L14	265S	12	4	.210 (5.33)	.100 (2.54)	.307 (7.80)
416-05-75S-R29-L14	265S	12	5	.280 (7.11)	.100 (2.54)	.377 (9.58)
416-06-75S-R29-L14	265S	12	6	.350 (8.89)	.100 (2.54)	.447 (11.35)
416-07-75S-R29-L14	265S	12	7	.420 (10.67)	.100 (2.54)	.517 (13.13)
416-08-75S-R29-L14	265S	12	8	.490 (12.45)	.100 (2.54)	.587 (14.91)
416-09-75S-R29-L14	265S	12	9	.560 (14.22)	.100 (2.54)	.657 (16.69)
416-10-75S-R29-L14	265S	12	10	.630 (16.00)	.100 (2.54)	.727 (18.47)
416-11-75S-R29-L14	265S	12	11	.700 (17.78)	.100 (2.54)	.797 (20.24)
416-12-75S-R29-L14	265S	12	12	.770 (19.56)	.100 (2.54)	.867 (22.02)
416-13-75S-R29-L14	265S	12	13	.840 (21.34)	.100 (2.54)	.937 (23.80)
416-14-75S-R29-L14	265S	12	14	.910 (23.11)	.100 (2.54)	1.007 (25.58)
416-15-75S-R29-L14	265S	12	15	.980 (24.89)	.100 (2.54)	1.077 (27.36)
416-16-75S-R29-L14	265S	12	16	1.050 (26.67)	.100 (2.54)	1.147 (29.13)
416-17-75S-R29-L14	265S	12	17	1.120 (28.45)	.100 (2.54)	1.217 (30.91)
416-18-75S-R29-L14	265S	12	18	1.190 (30.23)	.100 (2.54)	1.287 (32.69)
416-19-75S-R29-L14	265S	12	19	1.260 (32.00)	.100 (2.54)	1.357 (34.47)
416-20-75S-R29-L14	265S	12	20	1.330 (33.78)	.100 (2.54)	1.427 (36.25)
416-21-75S-R29-L14	265S	12	21	1.400 (35.56)	.100 (2.54)	1.497 (38.02)
416-22-75S-R29-L14	265S	12	22	1.470 (37.34)	.100 (2.54)	1.567 (39.80)
416-23-75S-R29-L14	265S	12	23	1.540 (39.12)	.100 (2.54)	1.637 (41.58)
416-24-75S-R29-L14	265S	12	24	1.610 (40.89)	.100 (2.54)	1.707 (43.36)
416-25-75S-R29-L14	265S	12	25	1.680 (42.67)	.100 (2.54)	1.777 (45.14)
416-26-75S-R29-L14	265S	12	26	1.750 (44.45)	.100 (2.54)	1.847 (46.91)
416-27-75S-R29-L14	265S	12	27	1.820 (46.23)	.100 (2.54)	1.917 (48.69)
416-28-75S-R29-L14	265S	12	28	1.890 (48.01)	.100 (2.54)	1.987 (50.47)
416-29-75S-R29-L14	265S	12	29	1.960 (49.78)	.100 (2.54)	2.057 (52.25)
416-30-75S-R29-L14	265S	12	30	2.030 (51.56)	.100 (2.54)	2.127 (54.03)

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

IS-09B 11/3/09

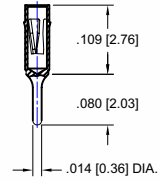
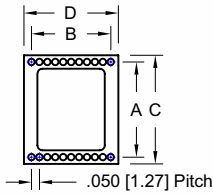
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.050 [1.27] Pitch Image Sensor DIP Sockets

Top View Shown

Units: in [mm]

Fig.8



- 274 Terminal Shown

For Terminal Details or other Terminal Types see Page 20

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS232-316-274U-R27-L14	281U	8	16	.300 (7.62)	.350 (8.89)	.385 (9.78)	.447 (11.35)
IS232-414-274U-R27-L14	281U	8	14	.400 (10.16)	.300 (7.62)	.485 (12.32)	.397 (10.08)
IS232-416-274U-R27-L14	281U	8	16	.400 (10.16)	.350 (8.89)	.485 (12.32)	.447 (11.35)
IS232-440-274U-R27-L14	281U	8	40	.400 (10.16)	.950 (24.13)	.485 (12.32)	1.047 (26.59)
IS232-4516-274U-R27-L14	281U	8	16	.450 (11.43)	.350 (8.89)	.535 (13.59)	.447 (11.35)
IS232-4820-274U-R27-L14	281U	8	20	.480 (12.19)	.450 (11.43)	.565 (14.35)	.547 (13.89)
IS232-520-274U-R27-L14	281U	8	20	.500 (12.70)	.450 (11.43)	.585 (14.86)	.547 (13.89)
IS232-522-274U-R27-L14	281U	8	22	.500 (12.70)	.500 (12.70)	.585 (14.86)	.597 (15.16)
IS232-5724-274U-R27-L14	281U	8	24	.570 (14.48)	.550 (13.97)	.655 (16.64)	.647 (16.43)
IS232-622-274U-R27-L14	281U	8	22	.600 (15.24)	.500 (12.70)	.685 (17.40)	.597 (15.16)
IS232-628-274U-R27-L14	281U	8	28	.600 (15.24)	.650 (16.51)	.685 (17.40)	.747 (18.97)

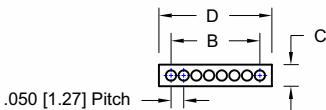
.050 [1.27] Pitch

.050 [1.27] Pitch Image Sensor SIP Sockets

Top View Shown

Units: in [mm]

Fig.13



Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	B	C	D
417-05-274U-R27-L14	281U	13	5	.200 (5.08)	.085 (4.80)	.297 (7.54)
417-06-274U-R27-L14	281U	13	6	.250 (6.35)	.085 (4.80)	.347 (8.81)
417-07-274U-R27-L14	281U	13	7	.300 (7.62)	.085 (4.80)	.397 (10.08)
417-08-274U-R27-L14	281U	13	8	.350 (8.89)	.085 (4.80)	.447 (11.35)
417-09-274U-R27-L14	281U	13	9	.400 (10.16)	.085 (4.80)	.497 (12.62)
417-10-274U-R27-L14	281U	13	10	.450 (11.43)	.085 (4.80)	.547 (13.89)
417-11-274U-R27-L14	281U	13	11	.500 (12.70)	.085 (4.80)	.597 (15.16)
417-12-274U-R27-L14	281U	13	12	.550 (13.97)	.085 (4.80)	.647 (16.43)
417-13-274U-R27-L14	281U	13	13	.600 (15.24)	.085 (4.80)	.697 (17.70)
417-14-274U-R27-L14	281U	13	14	.650 (16.51)	.085 (4.80)	.747 (18.97)
417-15-274U-R27-L14	281U	13	15	.700 (17.78)	.085 (4.80)	.797 (20.24)
417-16-274U-R27-L14	281U	13	16	.750 (19.05)	.085 (4.80)	.847 (21.51)
417-17-274U-R27-L14	281U	13	17	.800 (20.32)	.085 (4.80)	.897 (22.78)
417-18-274U-R27-L14	281U	13	18	.850 (21.59)	.085 (4.80)	.947 (24.05)
417-19-274U-R27-L14	281U	13	19	.900 (22.86)	.085 (4.80)	.997 (25.32)
417-20-274U-R27-L14	281U	13	20	.950 (24.13)	.085 (4.80)	1.047 (26.59)
417-21-274U-R27-L14	281U	13	21	1.000 (25.40)	.085 (4.80)	1.097 (27.86)
417-22-274U-R27-L14	281U	13	22	1.050 (26.67)	.085 (4.80)	1.147 (29.13)
417-23-274U-R27-L14	281U	13	23	1.100 (27.94)	.085 (4.80)	1.197 (30.40)
417-24-274U-R27-L14	281U	13	24	1.150 (29.21)	.085 (4.80)	1.247 (31.67)
417-25-274U-R27-L14	281U	13	25	1.200 (30.48)	.085 (4.80)	1.297 (32.94)
417-26-274U-R27-L14	281U	13	26	1.250 (31.75)	.085 (4.80)	1.347 (34.21)
417-27-274U-R27-L14	281U	13	27	1.300 (33.02)	.085 (4.80)	1.397 (35.48)
417-28-274U-R27-L14	281U	13	28	1.350 (34.29)	.085 (4.80)	1.447 (36.75)
417-29-274U-R27-L14	281U	13	29	1.400 (35.56)	.085 (4.80)	1.497 (38.02)
417-30-274U-R27-L14	281U	13	30	1.450 (36.83)	.085 (4.80)	1.547 (39.29)

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

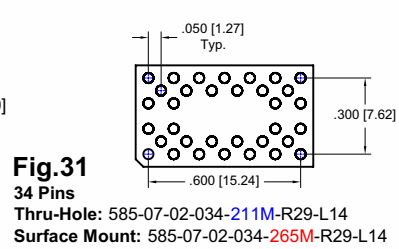
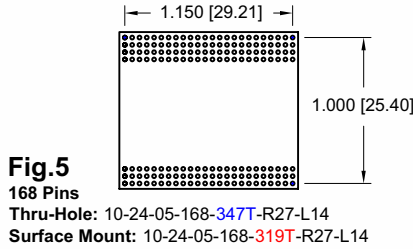
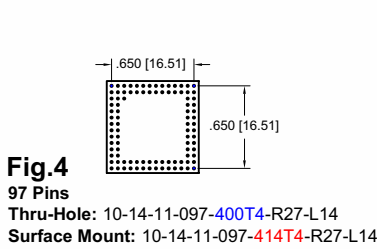
Andon Proprietary Information

IS-09B 11/3/09

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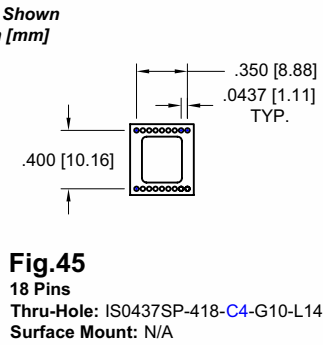
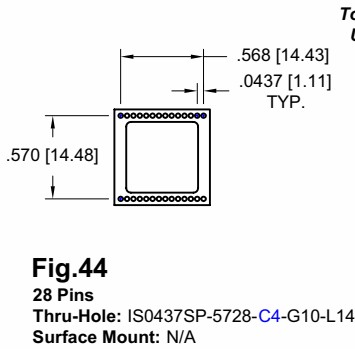
.050 [1.27] Pitch Image Sensor BGA Sockets

Top View Shown Units: in [mm]



.0437 [1.11] Pitch Image Sensor DIP Sockets

Top View Shown Units: in [mm]



Round Image Sensor Sockets

[Other Figures available, see our "Optoelectronic Catalog" at www.andonelect.com]

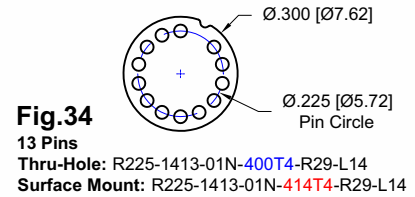
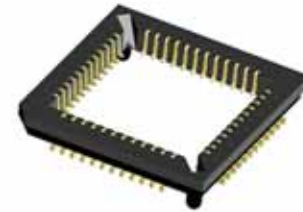
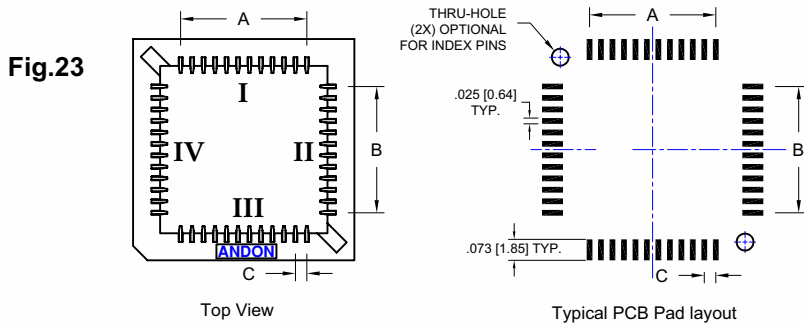


Image Sensor LCC Sockets

[For a full product data sheet, contact us.]



U.S. Patent# 5,588,847

Andon Part Number	Figure Number	Pin QTY.	A	B	C	Number of Pins (per side)			
						I	II	III	IV
620-20-SM-G10-L14-X	23	20	.200 (5.08)	.200 (5.08)	.050 (1.27)	5	5	5	5
620-28-SM-G10-L14-X	23	28	.300 (7.62)	.300 (7.62)	.050 (1.27)	7	7	7	7
620-40A-SM-G10-L14-X	23	40	.950 (24.13)	None	.050 (1.27)	20	0	20	0
620-44-SM-G10-L14-X	23	44	.500 (12.70)	.500 (12.70)	.050 (1.27)	11	11	11	11
620-68-SM-G10-L14-X	23	68	.800 (20.32)	.800 (20.32)	.050 (1.27)	17	17	17	17
620-84-SM-G10-L14-X	23	84	1.000 (25.40)	1.000 (25.40)	.050 (1.27)	21	21	21	21
620-100-SM-G10-L14-X	23	100	1.200 (30.48)	1.200 (30.48)	.050 (1.27)	25	25	25	25
680-32-SM-G10-L14-X	23	32	.280 (7.11)	.280 (7.11)	.040 (1.01)	8	8	8	8
680-40-SM-G10-L14-X	23	40	.360 (9.14)	.360 (9.14)	.040 (1.01)	10	10	10	10
680-48-SM-G10-R14-X	23	48	.440 (11.18)	.440 (11.18)	.040 (1.01)	12	12	12	12
680-64-SM-G10-R14-X	23	64	.600 (15.24)	.600 (15.24)	.040 (1.01)	16	16	16	16
680-100-SM-G10-R14-X	23	100	1.120 (28.45)	.800 (20.32)	.040 (1.01)	29	21	29	21

Replace "-X" with "-1" for index pins or "-0" for none

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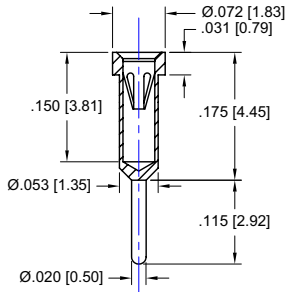
Appendix A: Terminal Details

Cross Section View Shown

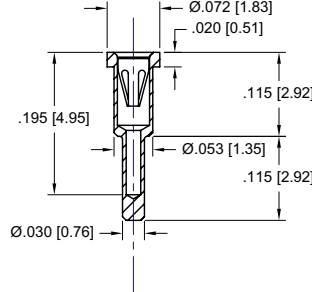
Units: in [mm]

Terminals

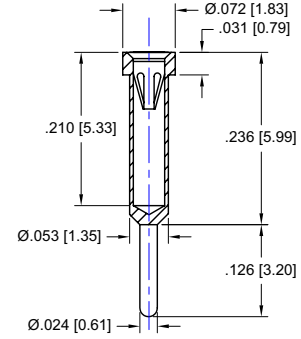
.100 [2.54] PITCH TERMINAL STYLES



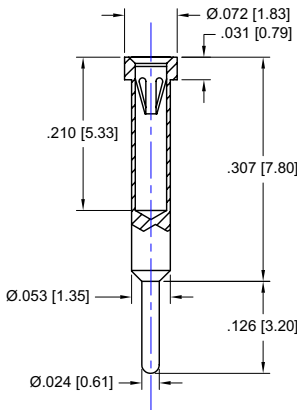
- 01



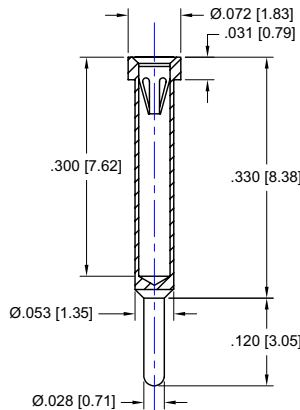
- 47



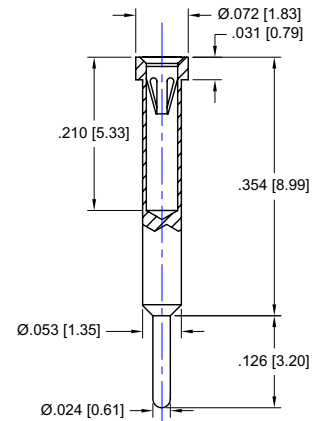
- 80



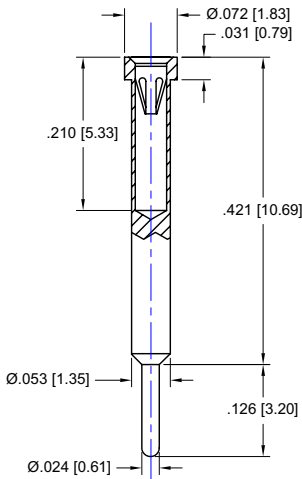
- 84



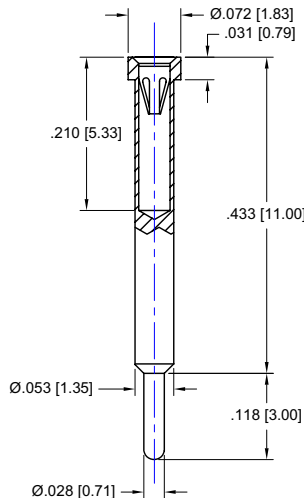
- 88



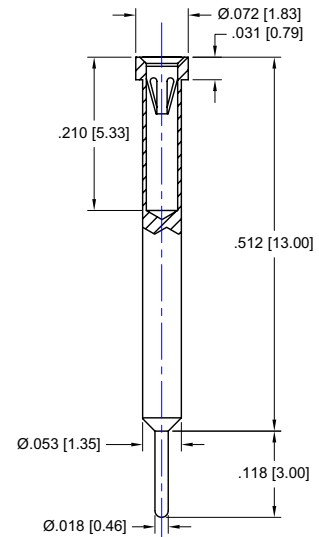
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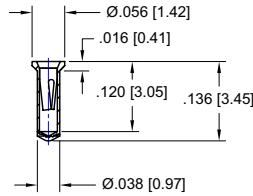
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Appendix A: Terminal Details

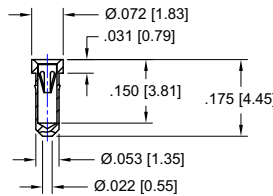
Cross Section View Shown

Units: in [mm]

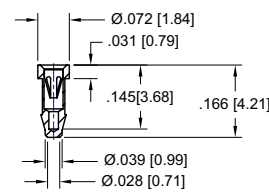
.100 [2.54] PITCH TERMINAL STYLES



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Low Profile

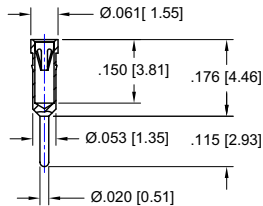


- 93

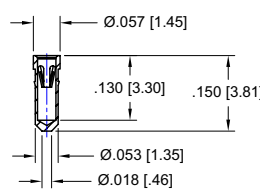


- 221

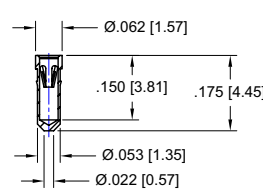
.070 [1.78] PITCH TERMINAL STYLES



- 75

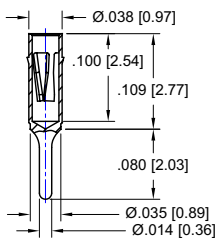


- 265

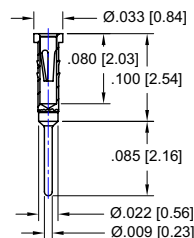


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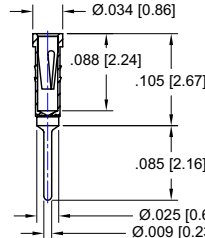
.050 [1.27] PITCH TERMINAL STYLES



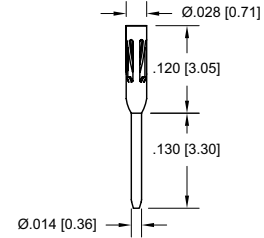
- 274



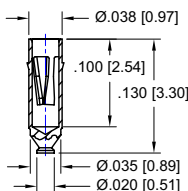
- 347



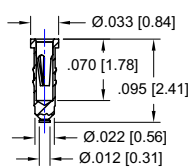
- 400



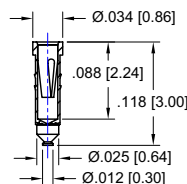
- C4



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- 319



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CONTACT TYPE

T: standard .040 pitch dip / sip
insertion force 1.0 oz max
withdrawal force 0.3 oz min

T4: standard .040 pitch dip / sip
insertion force 1.05 oz max
withdrawal force 0.32 oz min

U: standard .050 pitch dip / sip
insertion force 2.8 oz avg
withdrawal force 0.5 oz min

K: standard .050 pitch dip / sip
insertion force 1.2 oz max
withdrawal force 0.4 oz min

S: standard .070 & .100 pitch dip / sip
insertion force 9.0 oz avg
withdrawal force 2.0 oz min

M: standard .070 & .100 pitch pga
insertion force 1.6 oz max
withdrawal force 0.5 oz min

H: high force .070 & .100 pitch dip / sip
insertion force 18.3 oz avg
withdrawal force 4.2 oz min

C4: .040 pitch dip / sip
insertion force 1.5 oz avg
withdrawal force .35 oz min

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Andon Part Number	Pin QTY.	Page	Fig.
10-14-11-097-400T4-R27-L14	97	19	4
10-24-05-168-347T-R27-L14	168	19	5
405-03-01S-R29-L14	3	12	10
405-03-80S-R29-L14	3	12	10
405-04-01S-R29-L14	4	12	10
405-04-80S-R29-L14	4	12	10
405-05-01S-R29-L14	5	12	10
405-05-80S-R29-L14	5	12	10
405-06-01S-R29-L14	6	12	10
405-06-80S-R29-L14	6	12	10
405-07-01S-R29-L14	7	12	10
405-07-80S-R29-L14	7	12	10
405-08-01S-R29-L14	8	12	10
405-08-80S-R29-L14	8	12	10
405-09-01S-R29-L14	9	12	10
405-09-80S-R29-L14	9	12	10
405-10-01S-R29-L14	10	12	10
405-10-80S-R29-L14	10	12	10
405-11-01S-R29-L14	11	12	10
405-11-80S-R29-L14	11	12	10
405-11-88S-R29-L14	11	12	10
405-12-01S-R29-L14	12	12	10
405-12-80S-R29-L14	12	12	10
405-13-01S-R29-L14	13	12	10
405-13-80S-R29-L14	13	12	10
405-14-01S-R29-L14	14	12	10
405-14-80S-R29-L14	14	12	10
405-14-88S-R29-L14	14	12	10
405-15-01S-R29-L14	15	12	10
405-15-80S-R29-L14	15	12	10
405-16-01S-R29-L14	16	12	10
405-16-80S-R29-L14	16	12	10
405-17-01S-R29-L14	17	12	10
405-17-80S-R29-L14	17	12	10
405-18-01S-R29-L14	18	12	10
405-18-80S-R29-L14	18	12	10
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405-19-80S-R29-L14	19	12	10
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405-20-80S-R29-L14	20	12	10
405-21-01S-R29-L14	21	12	10
405-21-80S-R29-L14	21	12	10
405-22-01S-R29-L14	22	12	10
405-22-80S-R29-L14	22	12	10
405-23-01S-R29-L14	23	12	10
405-23-80S-R29-L14	23	12	10
405-24-01S-R29-L14	24	12	10
405-24-80S-R29-L14	24	12	10
405-25-01S-R29-L14	25	12	10
405-25-80S-R29-L14	25	12	10
405-26-01S-R29-L14	26	12	10
405-26-80S-R29-L14	26	12	10
405-27-01S-R29-L14	27	12	10
405-27-80S-R29-L14	27	12	10
405-28-01S-R29-L14	28	12	10
405-28-80S-R29-L14	28	12	10
405-29-01S-R29-L14	29	12	10
405-29-80S-R29-L14	29	12	10
405-30-01S-R29-L14	30	12	10
405-30-80S-R29-L14	30	12	10
409-209-01S-R29-L14	18	11	11
409-210-80S-R29-L14	20	11	11
409-211-01S-R29-L14	22	11	11
409-213-80S-R29-L14	26	11	11
416-03-75S-R29-L14	3	17	12
416-04-75S-R29-L14	4	17	12
416-05-75S-R29-L14	5	17	12
416-06-75S-R29-L14	6	17	12
416-07-75S-R29-L14	7	17	12

Andon Part Number	Pin QTY.	Page	Fig.
416-08-75S-R29-L14	8	17	12
416-09-75S-R29-L14	9	17	12
416-10-75S-R29-L14	10	17	12
416-11-75S-R29-L14	11	17	12
416-12-75S-R29-L14	12	17	12
416-13-75S-R29-L14	13	17	12
416-14-75S-R29-L14	14	17	12
416-15-75S-R29-L14	15	17	12
416-16-75S-R29-L14	16	17	12
416-17-75S-R29-L14	17	17	12
416-18-75S-R29-L14	18	17	12
416-19-75S-R29-L14	19	17	12
416-20-75S-R29-L14	20	17	12
416-21-75S-R29-L14	21	17	12
416-22-75S-R29-L14	22	17	12
416-23-75S-R29-L14	23	17	12
416-24-75S-R29-L14	24	17	12
416-25-75S-R29-L14	25	17	12
416-26-75S-R29-L14	26	17	12
416-27-75S-R29-L14	27	17	12
416-28-75S-R29-L14	28	17	12
416-29-75S-R29-L14	29	17	12
416-30-75S-R29-L14	30	17	12
417-05-274U-R29-L14	5	18	13
417-06-274U-R29-L14	6	18	13
417-07-274U-R29-L14	7	18	13
417-08-274U-R29-L14	8	18	13
417-09-274U-R29-L14	9	18	13
417-10-274U-R29-L14	10	18	13
417-11-274U-R29-L14	11	18	13
417-12-274U-R29-L14	12	18	13
417-13-274U-R29-L14	13	18	13
417-14-274U-R29-L14	14	18	13
417-15-274U-R29-L14	15	18	13
417-16-274U-R29-L14	16	18	13
417-17-274U-R29-L14	17	18	13
417-18-274U-R29-L14	18	18	13
417-19-274U-R29-L14	19	18	13
417-20-274U-R29-L14	20	18	13
417-21-274U-R29-L14	21	18	13
417-22-274U-R29-L14	22	18	13
417-23-274U-R29-L14	23	18	13
417-24-274U-R29-L14	24	18	13
417-25-274U-R29-L14	25	18	13
417-26-274U-R29-L14	26	18	13
417-27-274U-R29-L14	27	18	13
417-28-274U-R29-L14	28	18	13
417-29-274U-R29-L14	29	18	13
417-30-274U-R29-L14	30	18	13
575-08-04-040-80S-R29-L14	40	13	14
575-10-19-037-01S-R29-L14	37	14	30
575-11-42-068-01S-R29-L14	68	13	15
575-11-57-073-01S-R29-L14	73	13	16
575-12-22-044-88S-R29-L14	44	13	17
575-13-83-048-80S-R29-L14	48	13	18
575-14-39-036-01S-R29-L14	36	14	29
575-15-28-145-01S-R29-L14	145	14	36
575-15-62-082-80S-R29-L14	82	13	19
575-15-63-080-01S-R29-L14	80	13	20
575-15-64-056-88S-R29-L14	56	13	21
575-15-65-084-01S-R29-L14	84	13	24
575-16-24-127-01S-R29-L14	127	14	35
575-16-25-060-88S-R29-L14	60	14	32
575-16-26-032-01S-R29-L14	32	14	46
575-19-25-281-01M-R29-L14	281	14	33
575-19-27-088-01S-R29-L14	88	14	27
575-20-16-096-01S-R29-L14	96	13	22
575-23-02-104-01S-R29-L14	104	14	28
575-25-04-080-01S-R29-L14	80	13	25

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Andon Part Number	Pin QTY.	Page	Fig.
575-40-02-104-01S-R29-L14	104	14	26
585-07-02-034-211M-R29-L14	34	19	31
620-20-SM-G10-L14-X	20	19	23
620-28-SM-G10-L14-X	28	19	23
620-40A-SM-G10-L14-X	40	19	23
620-44-SM-G10-L14-X	44	19	23
620-68-SM-G10-L14-X	68	19	23
620-84-SM-G10-L14-X	84	19	23
620-100-SM-G10-L14-X	100	19	23
680-32-SM-G10-L14-X	32	19	23
680-40-SM-G10-L14-X	40	19	23
680-48-SM-G10-R14-X	48	19	23
680-64-SM-G10-R14-X	64	19	23
680-100-SM-G10-R14-X	100	19	23
IS0437SP-418-C4-G10-L14	18	19	45
IS0437SP-5728-C4-G10-L14	28	19	44
IS229-1028-01S-R29-L14-A	28	10	1A
IS229-1060D-01S-R29-L14	60	11	3
IS229-1226-80S-R29-L14	26	9	1
IS229-1330-01M-R29-L14	30	9	1
IS229-1426-01S-R29-L14	26	9	1
IS229-1451D-80S-R29-L14-A	51	11	2
IS229-1536D-01S-R29-L14	36	11	3
IS229-1639D-80M-R29-L14	39	11	3
IS229-1644D-01S-R29-L14	44	11	3
IS229-1752D-01S-R29-L14	52	10	39
IS229-1824-80S-R29-L14	24	9	1
IS229-1944D-01S-R29-L14	44	11	3
IS229-2024-80S-R29-L14	24	9	1
IS229-2034-80S-R29-L14	34	9	1
IS229-2044-80S-R29-L14	44	9	1
IS229-2239-01S-R29-L14	39	9	1
IS229-2278T-01M-R29-L14	78	10	42
IS229-2488D-01S-R29-L14	88	11	3
IS229-2640-01S-R29-L14	40	9	1
IS229-306-01S-R29-L14	6	9	1
IS229-308-01S-R29-L14	8	9	1
IS229-3080D-01S-R29-L14	80	11	3
IS229-316-01S-R29-L14	16	9	1
IS229-318-01S-R29-L14	18	9	1
IS229-324-01S-R29-L14	24	9	1
IS229-408-01S-R29-L14	8	9	1
IS229-420-01S-R29-L14	20	9	1
IS229-422-01S-R29-L14	22	9	1
IS229-422-80S-R29-L14	22	9	1
IS229-422-88S-R29-L14-A	22	10	1A
IS229-424-80S-R29-L14	24	9	1
IS229-432-80S-R29-L14	32	9	1
IS229-6120-80S-R29-L14	20	9	1
IS229-6124-01S-R29-L14	24	9	1
IS229-6128-01S-R29-L14	28	9	1
IS229-6140-01S-R29-L14	40	9	1
IS229-620-01S-R29-L14	20	9	1
IS229-622-01S-R29-L14	22	9	1
IS229-624-01S-R29-L14	24	9	1
IS229-624-80S-R29-L14	24	9	1
IS229-628-80S-R29-L14	28	9	1
IS229-640-01S-R29-L14	40	9	1
IS229-650-01S-R29-L14	50	9	1
IS229-656-01S-R29-L14	56	9	1
IS229-722-80S-R29-L14-A	22	10	1A
IS229-780D-01M-R29-L14	80	11	3
IS229-820-80S-R29-L14	20	9	1
IS229-820-80S-R29-L14-A	20	10	1A
IS229-824-01S-R29-L14	24	9	1
IS229-824-01S-R29-L14-A	24	10	1A
IS229-826-01S-R29-L14	26	9	1
IS229-828-88S-R29-L14	28	9	1
IS229-8826-01S-R29-L14	26	9	1

Andon Part Number	Pin QTY.	Page	Fig.
IS229-8826-80S-R29-L14	26	9	1
IS229-9124-80S-R29-L14	24	9	1
IS229-924-01S-R29-L14	24	9	1
IS229-932-01S-R29-L14	32	9	1
is229-938-01S-R29-L14	38	9	1
IS229-940-01S-R29-L14	40	9	1
IS230-1034-75S-R29-L14-A	34	15	6A
IS230-1232-400T4-R29-L14	32	15	6
IS230-1232-75S-R29-L14	32	15	6
IS230-1340-75S-R29-L14	40	15	6
IS230-18860-75S-R29-L14	60	15	6
IS230-2064-75S-R29-L14	64	15	6
IS230-2640-75S-R29-L14	40	15	6
IS230-416-75S-R29-L14	16	15	6
IS230-420-75S-R29-L14	20	15	6
IS230-4512-75S-R29-L14	12	15	6
IS230-532-75S-R29-L14	32	15	6
IS230-620-75S-R29-L14	20	15	6
IS230-620-75S-R29-L14-A	20	15	6A
IS230-624-75S-R29-L14-B	24	16	6B
IS230-632-75S-R29-L14	32	15	6
IS230-6367D-75S-R29-L14-A	67	16	38
IS230-724-75S-R29-L14-A	24	15	6A
IS230-828-75S-R29-L14	28	15	6
IS230-832-75S-R29-L14	32	15	6
IS230-832-75S-R29-L14-A	32	15	6A
IS230-832-75S-R29-L14-B	32	16	6B
IS230-930-75S-R29-L14	30	15	6
IS230-934-75S-R29-L14	34	15	6
IS230-9767D-75M-R29-L14-A	67	16	40
IS230D-97134-75M-R29-L14-A	134	17	41
IS231-1040-01S-R29-L14	40	11	43
IS231-428-01S-R29-L14	28	10	7
IS231-6140-01S-R29-L14	40	10	7
IS231-622-01S-R29-L14	22	10	7
IS231-636-01S-R29-L14	36	10	7
IS231-644-80M-R29-L14	44	10	7
IS231-1149D-01S-R29-L14	49	11	37
IS232-316-274U-P27-L14	16	18	8
IS232-414-274U-P27-L14	14	18	8
IS232-416-274U-P27-L14	16	18	8
IS232-440-274U-P27-L14	40	18	8
IS232-4516-274U-P27-L14	16	18	8
IS232-4820-274U-P27-L14	20	18	8
IS232-520-274U-P27-L14	20	18	8
IS232-522-274U-P27-L14	22	18	8
IS232-5724-274U-P27-L14	24	18	8
IS232-622-274U-P27-L14	22	18	8
IS232-628-274U-P27-L14	28	18	8
IS233-4146-75S-R29-L14	46	16	9
IS233-424-75S-R29-L14	24	16	9
IS233-532-75S-R29-L14	32	16	9
R225-1413-01-400T4-R29-L14	13	19	34

For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

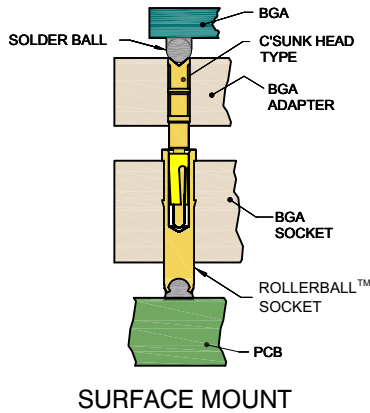
IS-09B 11/3/09

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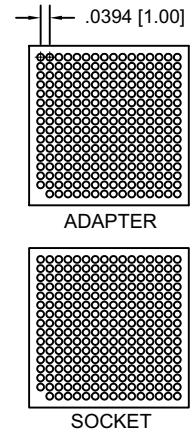
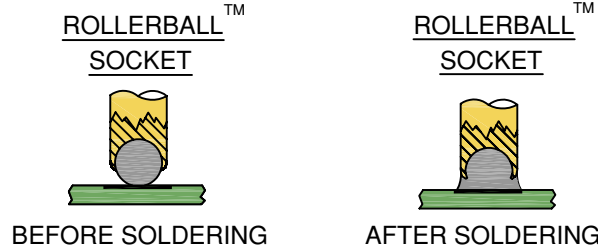
1 mm (.0394 inch) Pitch BGA Sockets / Adapters Rollerball™ Grid Array Socketing System

THE IDEAL SOLUTION TO FIX BGA ASSEMBLY PROBLEMS ON LARGE PCB'S

- **ADAPTER** WITH TERMINAL PINS FOR PLUGGING INTO ROLLERBALL™ SOCKET. BGA SOLDERED DIRECTLY ONTO ADAPTER.
- **SOCKET** WITH ROLLERBALL™ TERMINALS FOR SOLDERING DIRECTLY ONTO PCB.
- **REWORK** COST AND RISK OF DAMAGE REDUCED TO EXPENSIVE BGA AND MULTI LAYER PCB'S.



SURFACE MOUNT



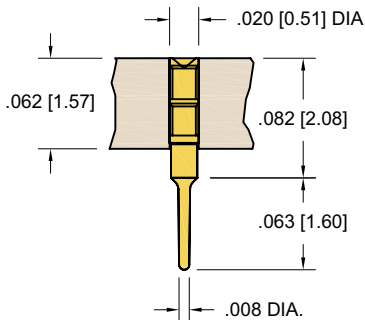
.0394 [1.00] X .0394 [1.00] PITCH
MANY FOOTPRINTS AVAILABLE

ROLLERBALL™ GRID ARRAY
SOCKETING ASSEMBLY
U.S. Patent # 6,352,437
Canadian Patent # 2,388,520

TERMINAL STYLES

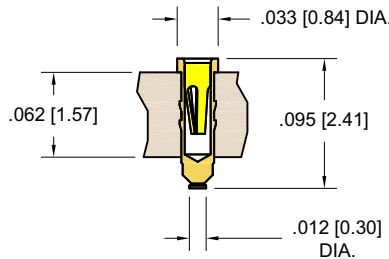
OTHER TERMINAL STYLES AVAILABLE (CONSULT FACTORY)

ADAPTER TERMINAL



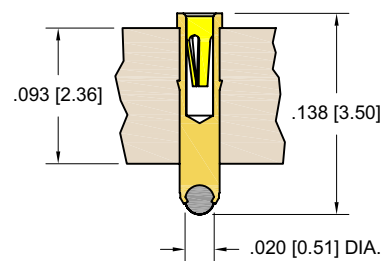
-320 C'SUNK HEAD
-321 FLATHEAD

SOCKET TERMINAL



-319T SURFACE MOUNT

SOCKET TERMINAL

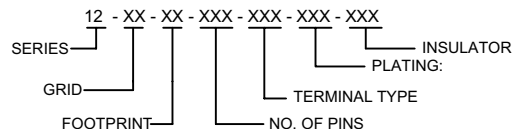


-RB339T SURFACE MOUNT ROLLERBALL™

TECHNICAL SPECIFICATIONS

- MATERIAL:
INSULATOR: FR-4 LAMINATE U.L. RATED 94V-0
TERMINAL: BRASS PLATED GOLD
CONTACT: BeCu PLATED GOLD
SOLDERBALL: 96.5% TIN, 3.0% SILVER, 0.5% COPPER
ADAPTER: COPPER ALLOY PLATED GOLD

ORDERING INFORMATION



For Other Pin Configuration or Layouts, Contact Factory.

RoHS Compliant

Andon Proprietary Information

IS-09B 11/3/09

At Andon Electronics we provide interconnection components that help companies to cost effectively protect, assemble, test and replace their semiconductor devices.



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- PLCC SOCKETS
- IMAGE SENSOR SOCKETS
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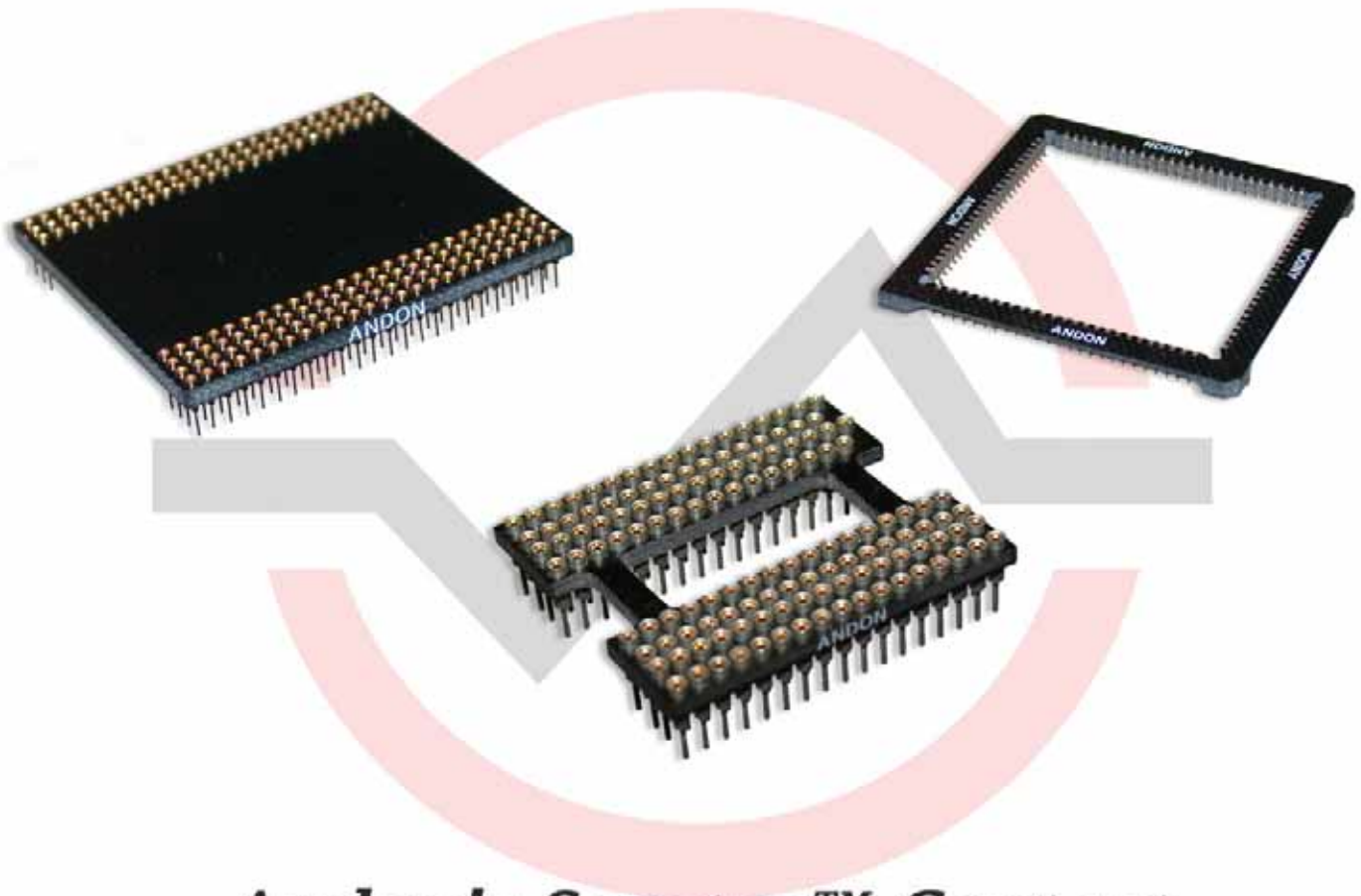
Contact: Customer Service

Phone: (401) 333-0388

Fax (401) 333-0287

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