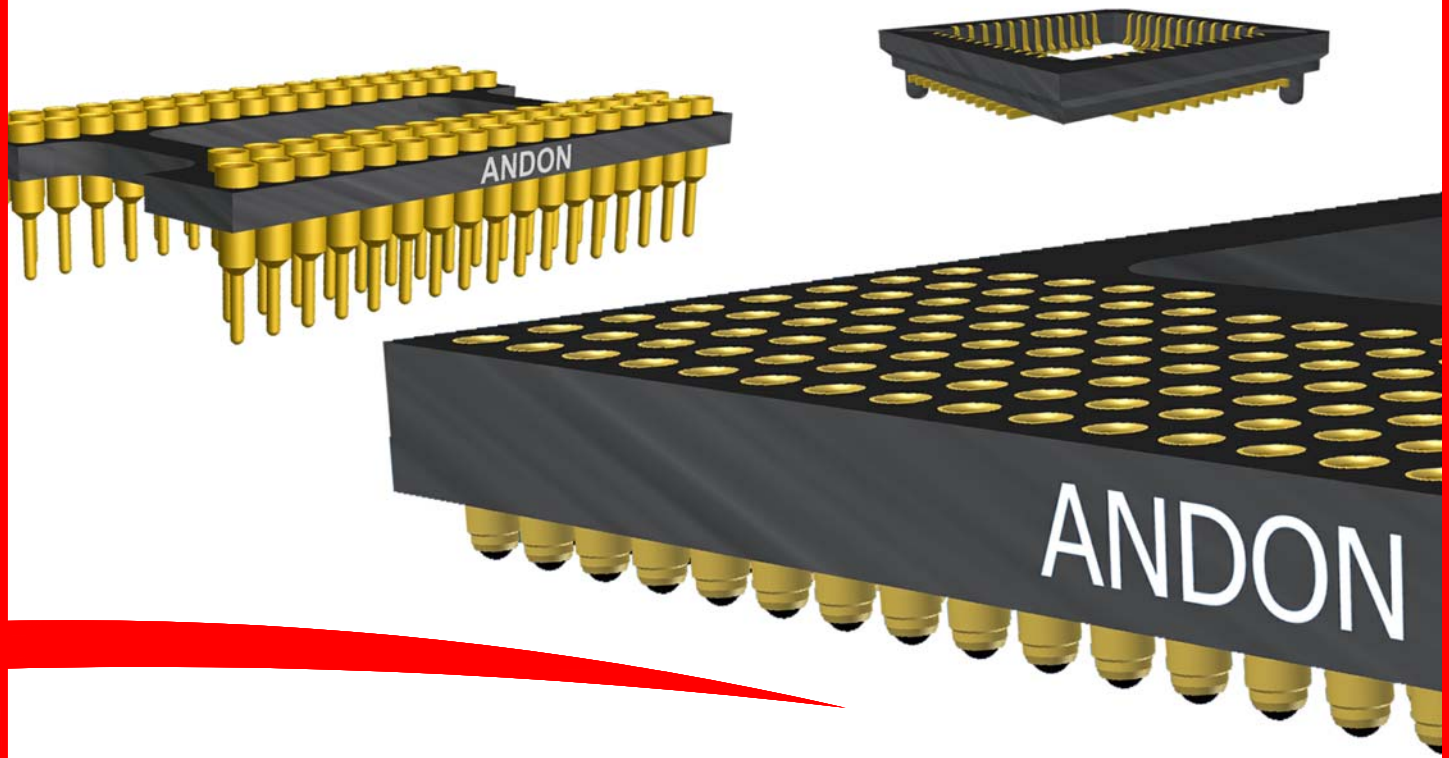
ANDON
INTERCONNECTION SPECIALISTS

High-Reliability Image Sensor Sockets for ON Semiconductor



Rollerball® U.S. PATENTED
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Featuring Andon's Unique Senstac™ Contact

ON SEMICONDUCTOR

Part Number	Product Name	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type: Thru-Hole	Terminal Type: Surface Mount	Terminal Type: Rollerball®	Pin Ø [in]	Figure Number	Page Number
	AGS67M	10-35-11-383-XXX-R27-L14	400T4	414T4	RB501T4	.012	21	10
-	AR0130CS	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	AR0132AT	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	AR0134CS	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	AR0134CS	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	AR0135AT/CS	12-08-03-063-XXX-R27-L14	347T	319T	-	.010	1	2
-	AR0138AT	17-11-02-109-XXX-R27-L14	437T	329T	-	.010	23	10
-	AR0140AT/CS	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	AR0141CS	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	AR0143AT	17-09-05-080-XXX-R27-L14	437T	329T	-	.010	26	11
-	AR0220AT	12-11-05-087-XXX-R27-L14	347T	319T	-	.010	22	10
-	AR0221	12-11-05-087-XXX-R27-L14	347T	319T	RB339T	.010	22	10
-	AR0230AT	12-09-03-080-XXX-R27-L14	437T	329T	RB339T	.010	14	7
-	AR023Z	12-09-03-080-XXX-R27-L14	437T	329T	RB339T	.010	14	7
-	AR0233AT	12-09-03-080-XXX-R27-L14	437T	329T	RB339T	.010	14	7
-	AR0234AT	17-11-02-076-XXX-R27-L14	437T	329T	-	.010	25	11
-	AR0237	12-09-03-080-XXX-R27-L14	437T	329T	RB339T	.010	14	7
-	AR0237AT	12-09-03-080-XXX-R27-L14	437T	329T	RB339T	.010	14	7
-	AR0239	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	AR0330	690-48-SM-G10-L14-X	-	-	-	-	10	5
-	AR0331	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	AR0430	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	AR0431	684-052-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	16	8
-	AR0522	684-052-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	16	8
-	AR0820AT	17-12-07-095-XXX-R27-L14	347T	319T	RB339T	.010	7	3
-	AR0835	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	20	10
-	AR1011	687-124-XX-XXX-R27-L14-X	-	-	-	-	24	11
-	AR1820HS	12-09-04-060-XXX-R27-L14	347T	319T	RB339T	.010	15	7
-	ARX550AT	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	ASX344AT	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
-	AS0142AT	12-08-03-063-XXX-R27-L14	347T	319T	RB339T	.010	1	2
NOII4SM6600A	IBIS4-6600	620-68-SM-G10-S14-X	-	-	-	-	12	6
NOII4SM6600ABJLCC	IBIS4-6600	710-84-SM-T1	-	-	-	-	3	2
-	KAI-50140	IS230-1371D-XXX-R27-L14-A	75M	265M	RB338K	.018	17	8
NOIL1SN3000A	LUPA 3000	10-21-06-369-XXX-R27-L14	400T4	414T4	RB501T4	.012	4	3
NOIL2SM1300A	LUPA-1300-2	10-24-05-168-XXX-R27-L14	400T4	414T4	RB501T4	.012	5	3
NOIL2SM1300A	LUPA-1300-2	10-24-05A-168-XXX-R27-L14	400T4	414T4	RB501T4	.012	5	3
NOIL1SM0300A	LUPA-300	680-48-SM-G10-R14-X	-	-	-	-	11	6
-	MT9D131	680-48-SM-G10-R14-X	-	-	-	-	11	6
-	MT9F002	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9J001/ MT9J003	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9M001	680-48-SM-G10-R14-X	-	-	-	-	11	6
-	MT9M021	12-08-03-063-XXX-P27-L14	347T	319T	RB339T	.010	1	2
-	MT9M024	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9M034	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9M131	690-48-SM-G10-L14-X	-	-	-	-	10	5
-	MT9P001	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9P006	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9P031	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	13	7
-	MT9V022	12-08-02-052-XXX-R27-L14	347T	319T	RB339T	.010	2	2
-	MT9V023	12-08-02-052-XXX-R27-L14	347T	319T	RB339T	.010	2	2
-	MT9V024	12-08-02-052-XXX-R27-L14	347T	319T	RB339T	.010	2	2
-	MT9V032	690-48-SM-G10-L14-X	-	-	-	-	10	5
-	MT9V032 (LCC)	690-48-SM-G10-L14-X	-	-	-	-	10	5
-	MT9V034	690-48-SM-G10-L14-X	-	-	-	-	10	5
-	MT9V126	12-08-03-063-XXX-P27-L14	347T	319T	RB339T	.010	1	2
-	MT9V127	12-08-03-063-XXX-P27-L14	347T	319T	RB339T	.010	1	2
-	MT9V128	12-08-03-063-XXX-P27-L14	347T	319T	RB339T	.010	1	2
NOIP1SN2000A / NOIP1SN5000A	PYTHON 2K / PYTHON 5K (LCC)	686-84A-SM-G10-L14-X	-	-	-	-	8	4
NOIP1SN2000A / NOIP1SN5000A	PYTHON 2K / PYTHON 5K (LCC)	686-84B-SM-G10-L14-X	-	-	-	-	9	5
NOIP1SN2000A / NOIP1SN5000A	PYTHON 2K / PYTHON 5K (LGA)	683-128-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	18	9
NOIP1SN016KA	PYTHON 16K	10-31-13A-355-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
NOIP1SN025KA	PYTHON 25K	10-31-13A-355-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
NOIP1SN0300A	PYTHON 300	680-48-SM-G10-R14-X	-	-	-	-	11	6
NOIP1SN0500A	PYTHON 500	680-48-SM-G10-R14-X	-	-	-	-	11	6
NOIP1SN1300A	PYTHON1300	680-48-SM-G10-R14-X	-	-	-	-	11	6
NOIV1SN012KA	VITA 12K	10-31-13A-355-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
NOIV1SN1300A / NOIV2SN1300A	VITA 1300	680-48-SM-G10-R14-X	-	-	-	-	11	6
NOIV1SN016KA	VITA 16K	10-31-13A-355-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
NOIV1SN2000A / NOIV2SN2000A	VITA 2000	620-52-SM-G10-L14-X	-	-	-	-	12	6
NOIV1SN025KA	VITA 25K	10-31-13-355-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
NOIV1SN025KA	VITA 25K	10-31-13A-355-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
NOIV1SN5000A	VITA 5000	620-68-SM-G10-S14-X	-	-	-	-	12	6

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

See back cover for Carrier and low profile options including other socket mounting types.
Heat sink socket available to reduce heat and noise. Contact Andon for details.

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*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

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Part Number	Product Name	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type Thru-Hole	Surface Mount	Rollerball®	Pin Ø [in]	Figure Number	Page Number
-	XGS 2000	694-163B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	28	12
-	XGS 3000	694-163B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	28	12
-	XGS 5000	694-163B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	28	12
-	XGS 8000	694-163-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	19	9
-	XGS 9400	694-163-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	19	9
-	XGS 12000	694-163-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	19	9
-	XGS 16000	694-163A-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	27	12
-	XGS 20000	10-26-39-251-XXXXX-R27-L14	400T4	414T4	RB501T4	.012	20	10
-	XGS 30000	10-26-39-251-XXXXX-R27-L14	400T4	414T4	RB501T4	.012	20	10
-	XGS 45000	10-26-39-251-XXXXX-R27-L14	400T4	414T4	RB501T4	.012	20	10

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

See back cover for Carrier and low profile options including other socket mounting types.
Heat sink socket available to reduce heat and noise. Contact Andon for details.

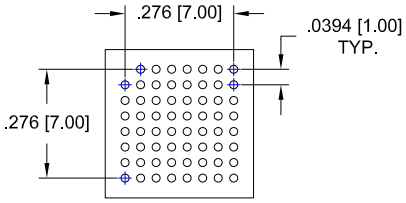


Fig. 1 63 Pins

Thru-Hole: 12-08-03-063-347T-R27-L14
Surface Mount: 12-08-03-063-319T-R27-L14
Rollerball®: 12-08-03-063-RB339T-R27-L14
Adapter: 12-08-03-063-321-G10-L14

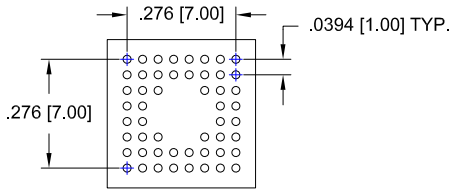
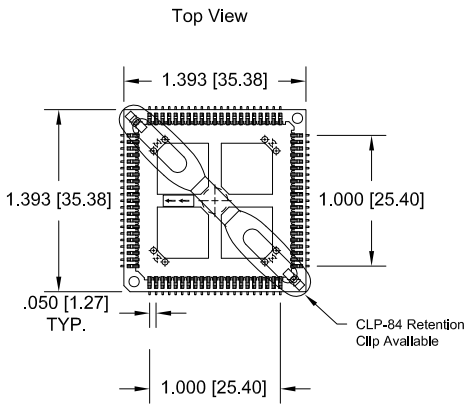
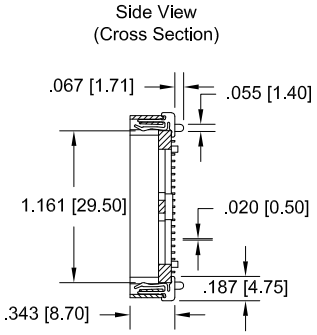


Fig. 2 52 Pins

Thru-Hole: 12-08-02-052-347T-R27-L14
Surface Mount: 12-08-02-052-319T-R27-L14
Rollerball®: 12-08-02-052-RB339T-R27-L14
Adapter: 12-08-02-052-321-G10-L14





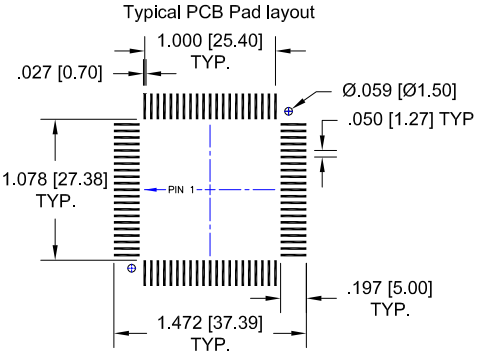
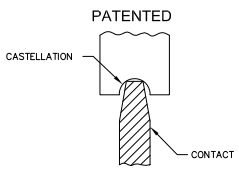


Fig. 3 84 Contacts

Surface Mount: 710-84-SM-T1

Contact Plating = Tin
-SM = Without Index Pins
-SM3 = 2 index Pins Diagonally



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*Sockets are not drawn to scale ON Semiconductor 03/31/2022

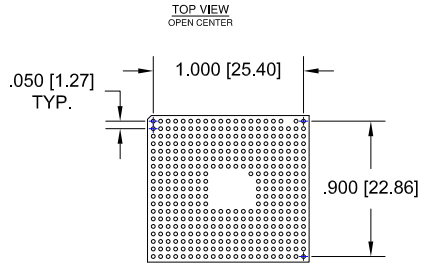

Fig. 4 369 Pins

Thru-Hole: 10-21-06-369-400T4-R27-L14
Surface Mount: 10-21-06-369-414T4-R27-L14
Rollerball® : 10-21-06-369-RB501T4-R27-L14

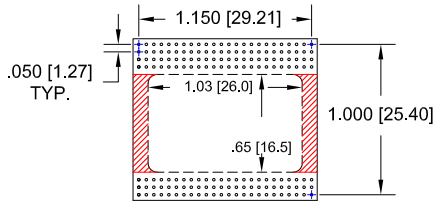

Fig. 5 168 Pins

Thru-Hole: 10-24-05-168-400T4-R27-L14
Surface Mount: 10-24-05-168-414T4-R27-L14
Rollerball® : 10-24-05-168-RB501T4-R27-L14

PART NUMBER WITH OPTIONAL WINDOW

Thru-Hole: 10-24-05**A**-168-400T4-R27-L14 (With Window)
Surface Mount: 10-24-05**A**-168-414T4-R27-L14 (With Window)
Rollerball® : 10-24-05**A**-168-RB501T4-R27-L14 (With Window)

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-10-24-05-168-XXX-R27-L14-SIP
Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

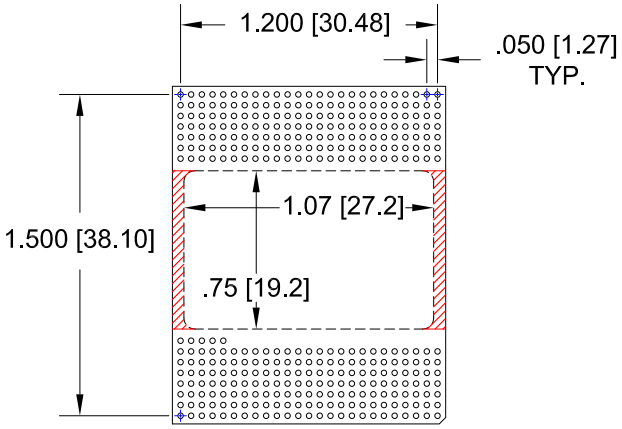

Fig. 6 355 Pins

Thru-Hole: 10-31-13-355-400T4-R27-L14
Surface Mount: 10-31-13-355-414T4-R27-L14
Rollerball® : 10-31-13-355-RB501T4-R27-L14

PART NUMBER WITH OPTIONAL WINDOW

Thru-Hole: 10-31-13A-355-400T4-R27-L14 (With Window)
Surface Mount: 10-31-13A-355-414T4-R27-L14 (With Window)
Rollerball® : 10-31-13A-355-RB501T4-R27-L14 (With Window)

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-10-31-13B-355-XXX-R27-L14-SIP
Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

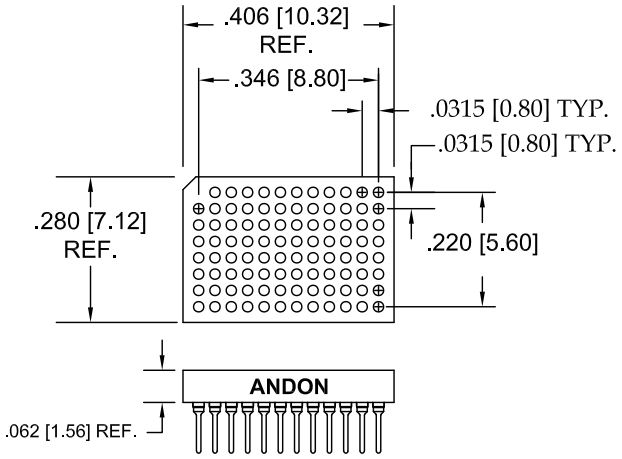

Fig. 7 95 Pins

Thru-Hole: 17-12-07-095-347T-R27-L14
Surface Mount: 17-12-07-095-319T-R27-L14
Adapter: 17-12-07-095-321-G10-L14

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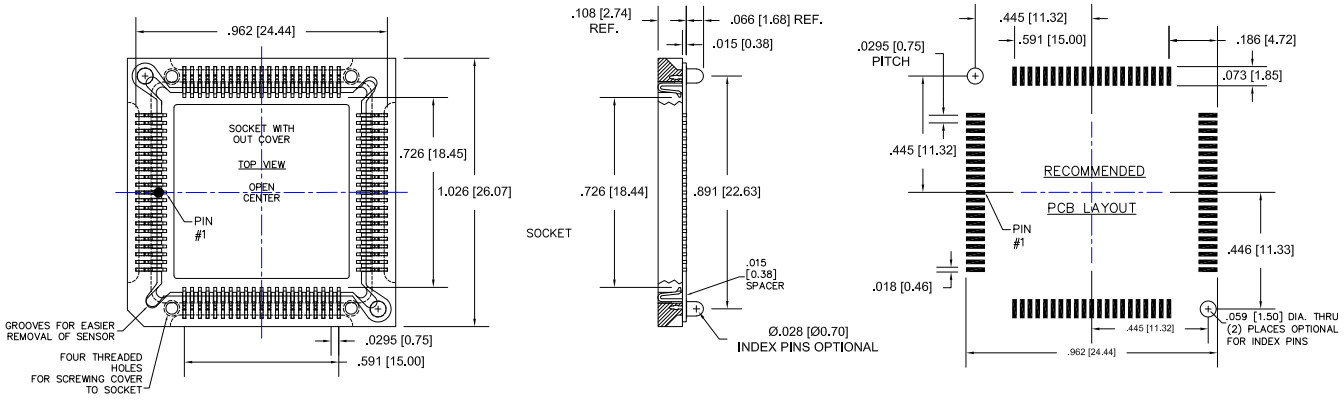
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

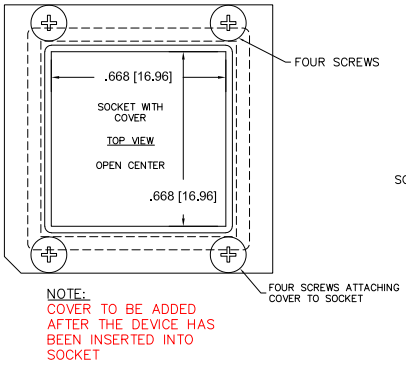
ON Semiconductor *Continued*

Image Sensor Socket Footprints

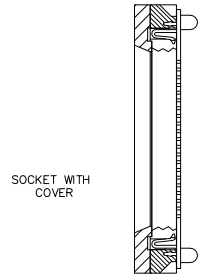
Units: in [mm]



NOTE:
.015 [0.38] SPACER TO BE ADDED TO THE SOCKET BEFORE THE SOCKET HAS BEEN SOLDERED ON THE PCB



NOTE:
COVER TO BE ADDED AFTER THE DEVICE HAS BEEN INSERTED INTO SOCKET



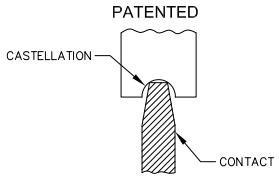


Fig.8 84 Contacts

Surface Mount: 686-84A-SM-G10-L14-X
Contact Plating = Gold

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

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*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]

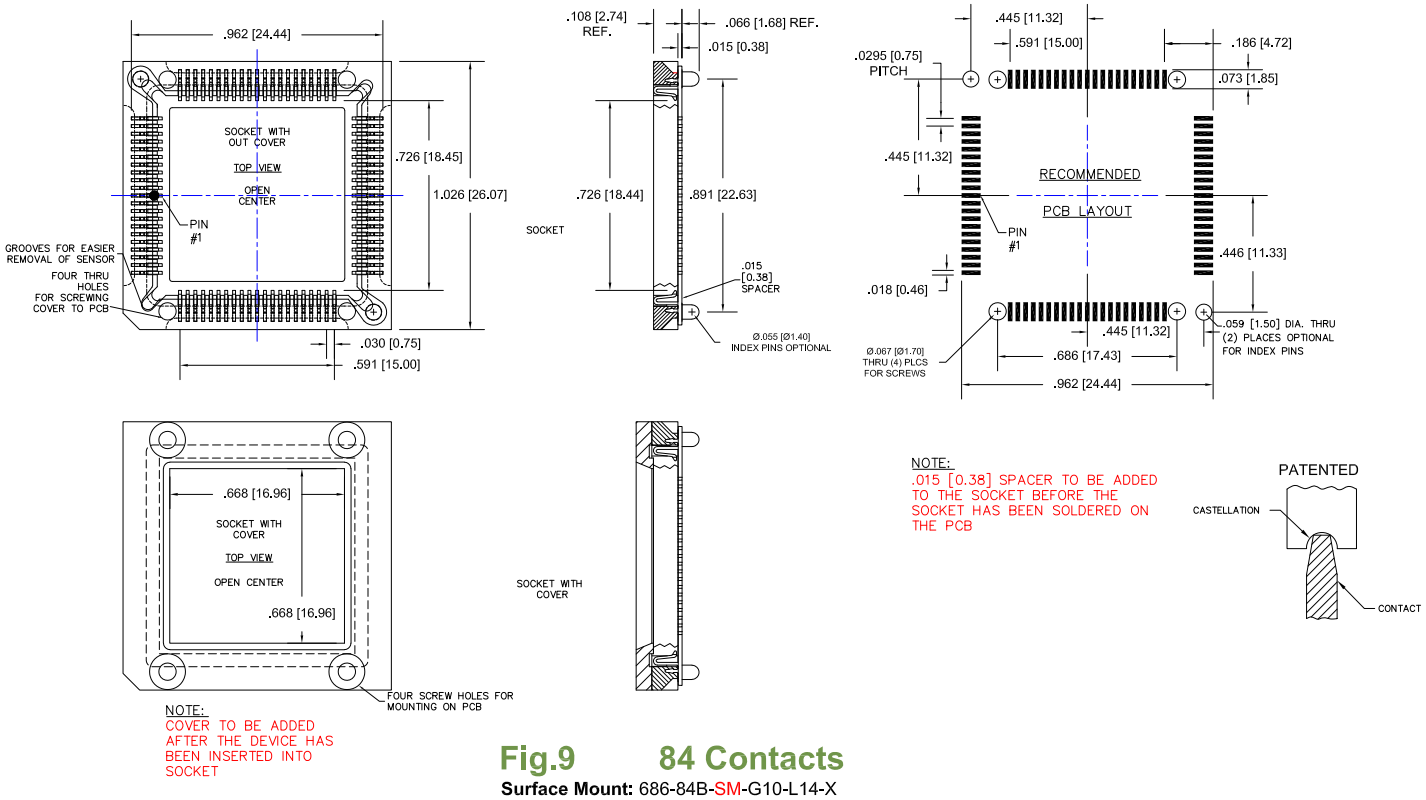


Fig.9 84 Contacts

Surface Mount: 686-84B-SM-G10-L14-X
Contact Plating = Gold

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

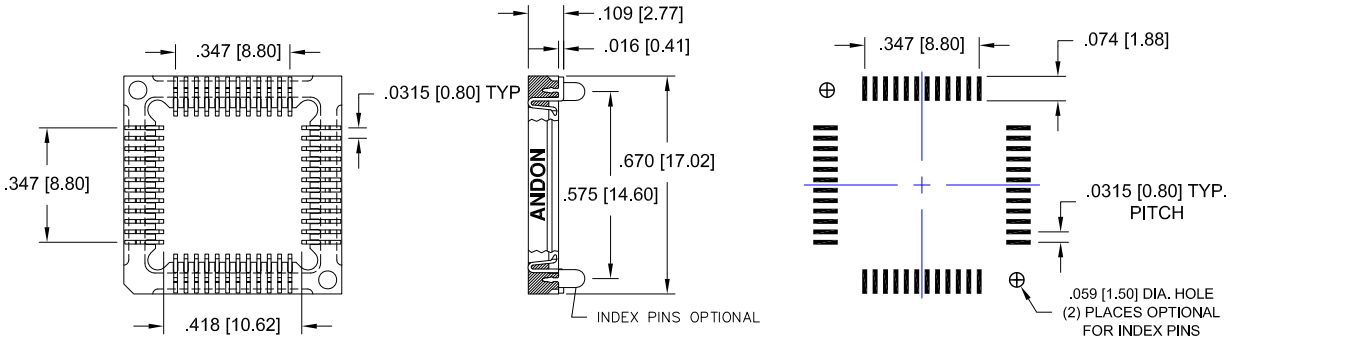


Fig.10 48 Contacts

Surface Mount: 690-48-SM-G10-L14-X
Contact Plating = Gold

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

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]

.040 [1.02] Pitch LCC Socket

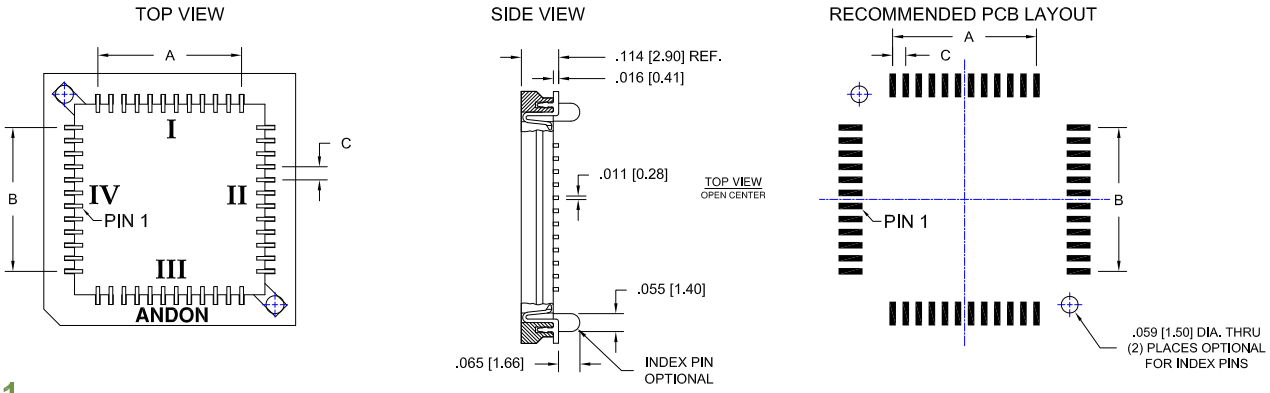
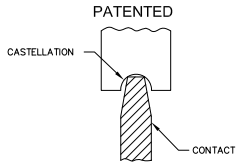


Fig. 11

Andon Part Number	Pin QTY.	A	B	C	Number of Pins (per side) I	II	III	IV
680-32-SM-G10-L14-X	32	.280 (7.11)	.280 (7.11)	.040 (1.01)	8	8	8	8
680-40-SM-G10-L14-X	40	.360 (9.14)	.360 (9.14)	.040 (1.01)	10	10	10	10
680-44-SM-G10-L14-X	44	.520 (13.21)	.520 (13.21)	.040 (1.01)	11	11	11	11
680-48-SM-G10-R14-X	48	.440 (11.18)	.440 (11.18)	.040 (1.01)	12	12	12	12
680-64-SM-G10-R14-X	64	.600 (15.24)	.600 (15.24)	.040 (1.01)	16	16	16	16
680-84-SM-G10-L14-X	84	.800 (20.32)	.800 (20.32)	.040 (1.01)	21	21	21	21
680-100-SM-G10-L14-X	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

Contact Plating = Gold



NON MAGNETIC PLATING AVAILABLE - G55

For Other Pin Configuration or Layouts, Contact Factory.

.050 [1.27] Pitch LCC Sockets

EXTRACTION TOOL AVAILABLE

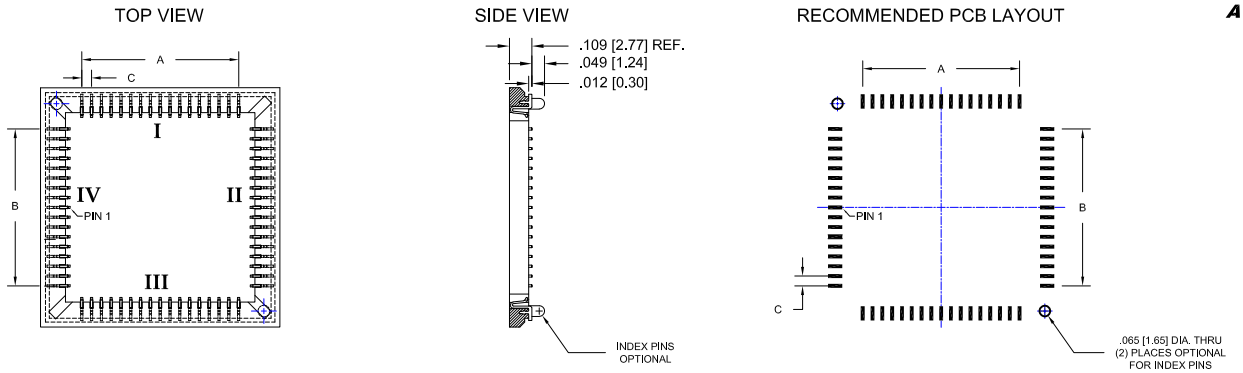
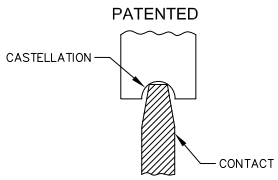


Fig. 12

For Other Pin Configurations or Layouts, Contact Factory.

Andon Part Number	Pin QTY.	A	B	C	Number of Pins (per side) I	II	III	IV
620-16-SM-G10-L14-X	16	.150 (3.81)	.150 (3.81)	.050 (1.27)	4	4	4	4
620-20-SM-G10-L14-X	20	.200 (5.08)	.200 (5.08)	.050 (1.27)	5	5	5	5
620-28-SM-G10-L14-X	28	.300 (7.62)	.300 (7.62)	.050 (1.27)	7	7	7	7
620-40A-SM-G10-L14-X	40	.950 (24.13)	.950 (24.13)	.050 (1.27)	20	0	20	0
620-44-SM-G10-L14-X	44	.500 (12.70)	.500 (12.70)	.050 (1.27)	11	11	11	11
620-52-SM-G10-L14-X	52	.600 (15.24)	.600 (15.24)	.050 (1.27)	13	13	13	13
620-68-SM-G10-S14-X	68	.800 (20.32)	.800 (20.32)	.050 (1.27)	17	17	17	17
620-84-SM-G10-L14-X	84	1.000 (25.40)	1.000 (25.40)	.050 (1.27)	21	21	21	21
620-100-SM-G10-L14-X	100	1.200 (30.48)	1.200 (30.48)	.050 (1.27)	25	25	25	25

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



NON MAGNETIC PLATING AVAILABLE - G55

RoHS Compliant

Andon Proprietary Information

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]

.0276 [0.70] Pitch iLCC LGA Thru-Hole Spring Socket

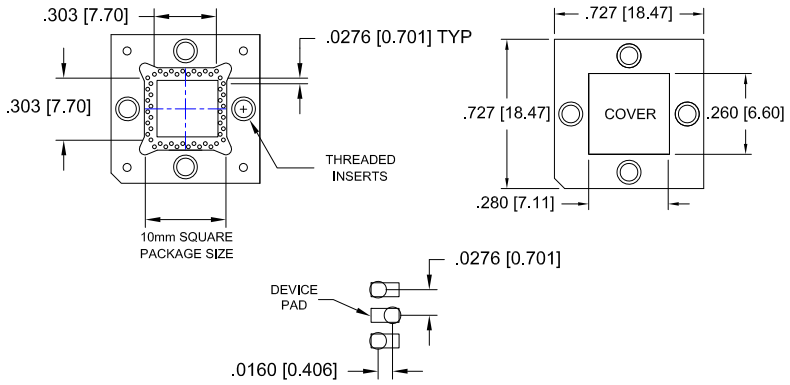


Fig. 13 48 Pins

Thru-Hole: 685-48-TH-491-R27-X14-X
Surface Mount: 685-48-SM-500-R27-X14-X

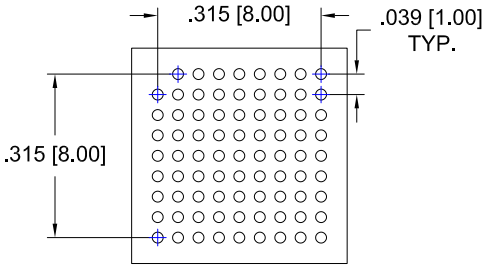
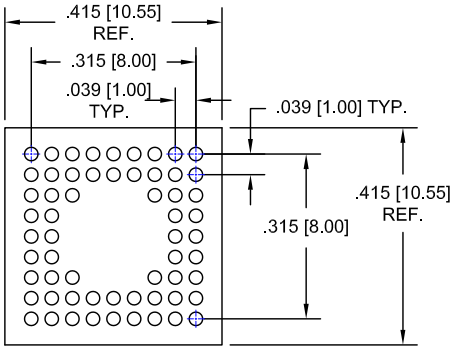


Fig. 14 080 Pins

Thru-Hole: 12-09-03-080-437T-R27-L14
Surface Mount: 12-09-03-080-329T-R27-L14
Rollerball® : 12-09-03-080-RB339T-R27-L14
Adapter: 12-09-03-080-321-G10-L14



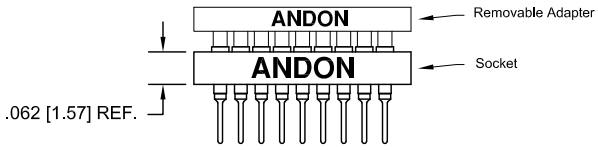


Fig. 15 60 Pins

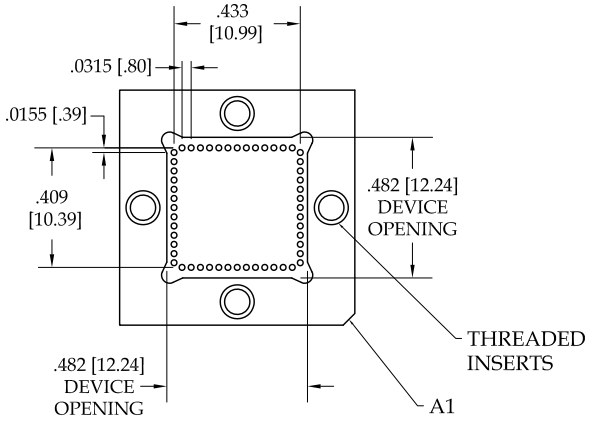
Thru-Hole: 12-09-04-060-347T-R27-L14
Surface Mount: 12-09-04-060-319T-R27-L14
Rollerball®: 12-09-04-060-RB339T-R27-L14
Adapter: 12-09-04-060-321-G10-L14

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

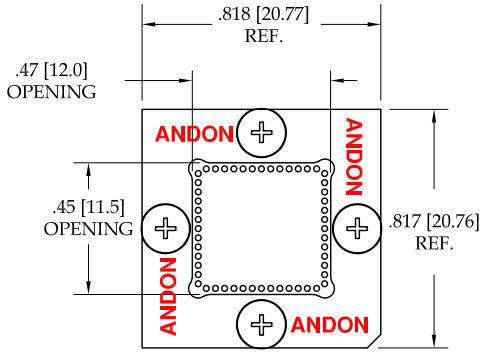
ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 16 52 Pins

Thru-Hole: 684-052-TH-491-R27-L14-1
Surface Mount: 684-052-SM-500-R27-L14-1

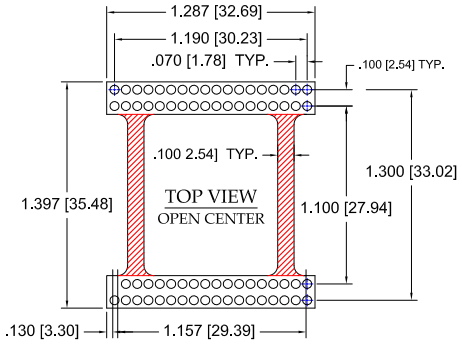


Fig. 17 71 Pins

Thru-Hole: IS230-1371D-75M-R27-L14-A
Surface Mount: IS230-1371D-265M-R27-L14-A
Rollerball® : IS230-1371D-RB338K-R27-L14-A

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-IS230-1371D-XXX-R27-L14-SIP
Replace "-XXX" with choice of terminal

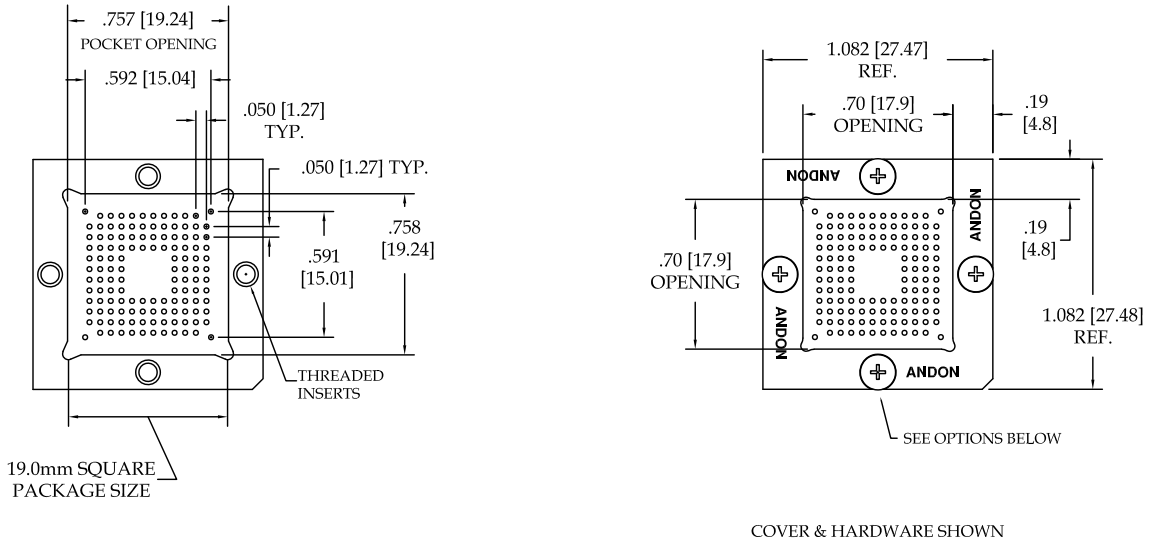
See last page for other Carrier Assembly configurations.

RoHS Compliant
Andon Proprietary Information
*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

Image Sensor Socket Footprints

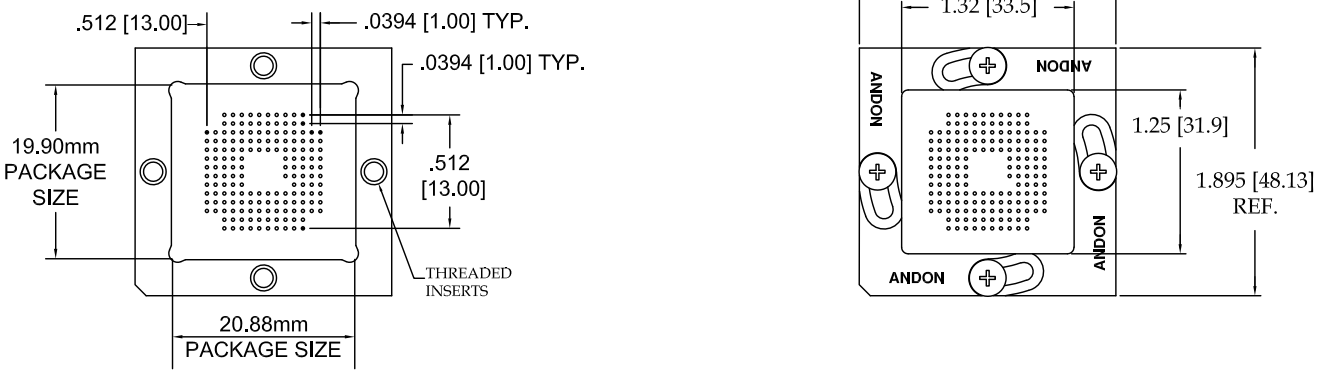
Units: in [mm]



COVER & HARDWARE SHOWN

Fig. 18 128 Pins

Thru-Hole: 683-128-TH-491-R27-L14-1
Surface Mount: 683-128-SM-500-R27-L14-1
Rollerball® : 683-128-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN

COVER & HARDWARE SHOWN

Fig. 19 163 Pins

Thru-Hole: 694-163-TH-491-R27-L14-1
Surface Mount: 694-163-SM-500-R27-L14-1
Rollerball® : 694-163-SM-RB593-R27-L14-1

ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]

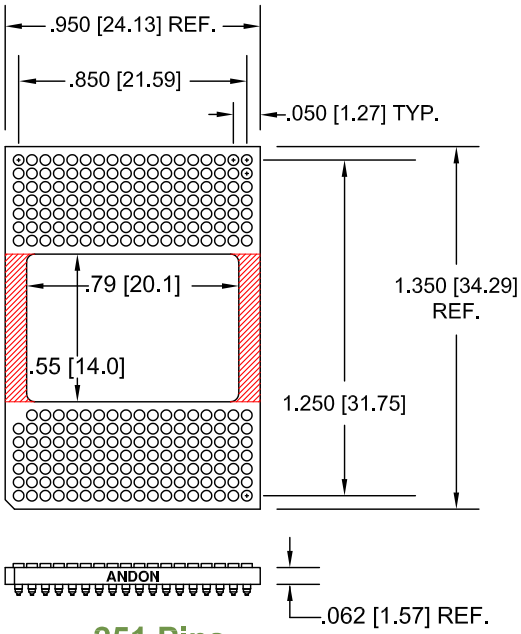


Fig. 20 251 Pins

Thru-Hole: 10-26-39-251-400T4-R27-L14
Surface Mount: 10-26-39-251-414T4-R27-L14
Rollerball® : 10-26-39-251-RB501T4-R27-L14

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:
9-10-26-39-251-XXX-R27-L14-SIP
Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

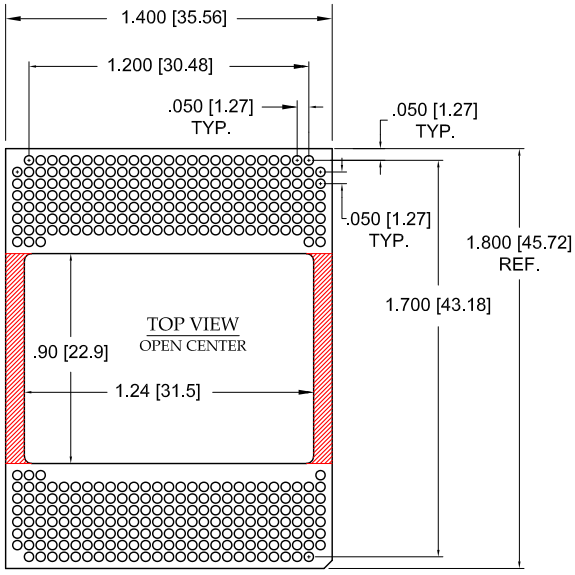


Fig. 21 383 Pins

Thru-Hole: 10-35-11-383-400T4-R27-L14
Surface Mount: 10-35-11-383-414T4-R27-L14
Rollerball® : 10-35-11-383-RB501T4-R27-L14

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:
9-10-35-11-383-XXX-R27-L14-SIP
Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

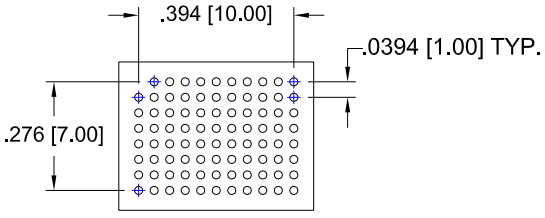


Fig. 22 87 Pins

Thru-Hole: 12-11-05-087-347T-R27-L14
Surface Mount: 12-11-05-087-319T-R27-L14
Rollerball®: 12-11-05-087-RB339T-R27-L14
Adapter: 12-11-05-087-321-G10-L14

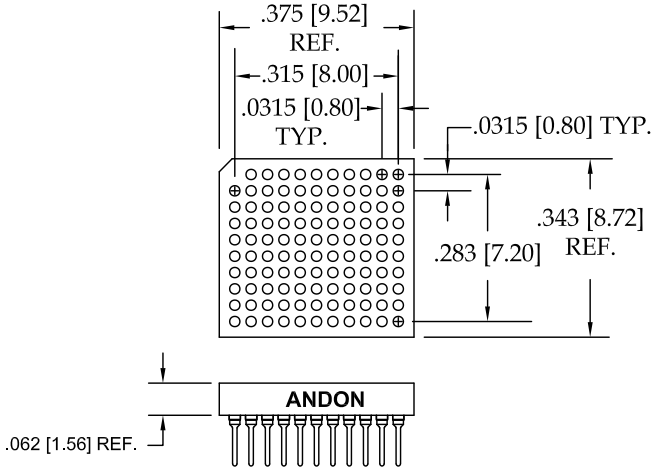


Fig. 23 109 Pins

Thru-Hole: 17-11-02-109-437T-R27-L14
Surface Mount: 17-11-02-109-329T-R27-L14
Adapter: 17-11-02-109-321-G10-L14

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]

.0276 [0.70] Pitch CLCC Socket

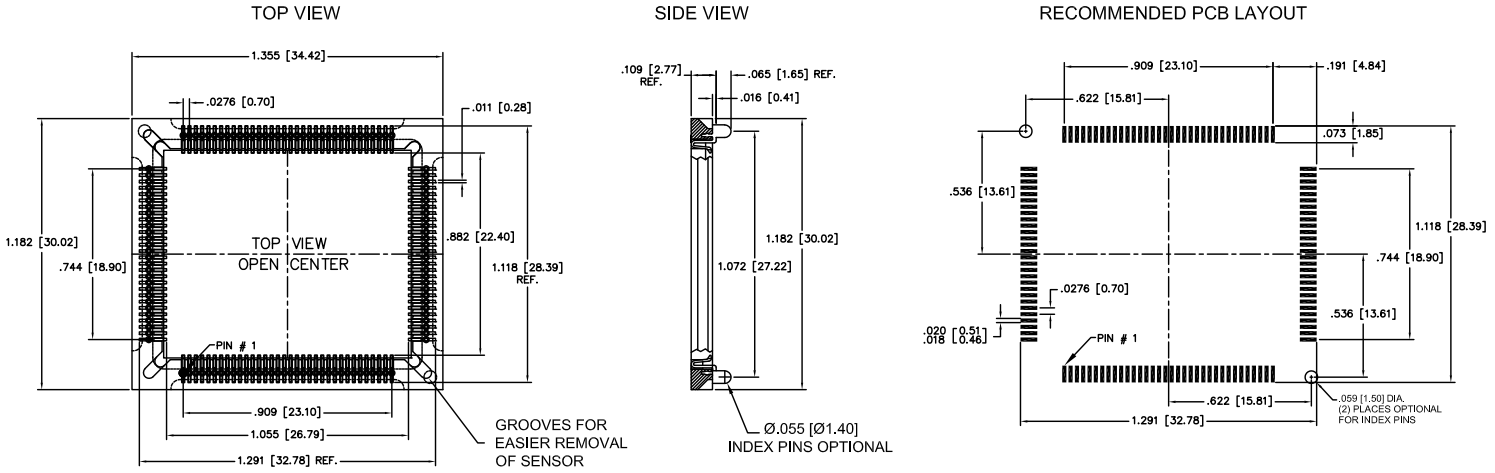
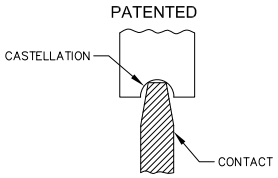


Fig. 24 124 Contacts

Surface Mount: 687-124-SM-G10-L14-X
Contact Plating = Gold
Replace "-X" with "-1" for index pins or "-0" for none



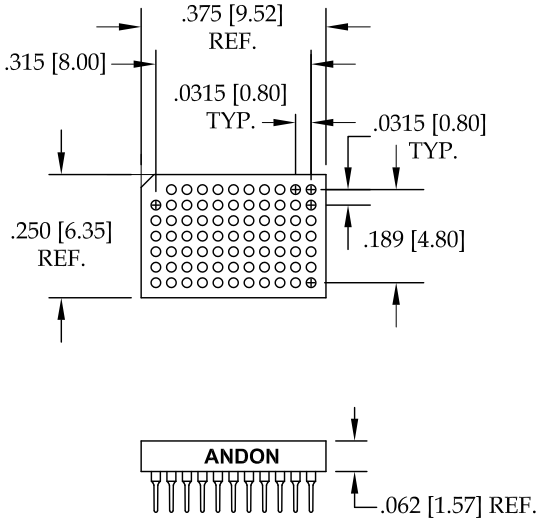


Fig. 25 76 Pins

Thru-Hole: 17-11-02-076-437T-R27-L14
Surface Mount: 17-11-02-076-329T-R27-L14
Adapter: 17-11-02-076-321-G10-L14

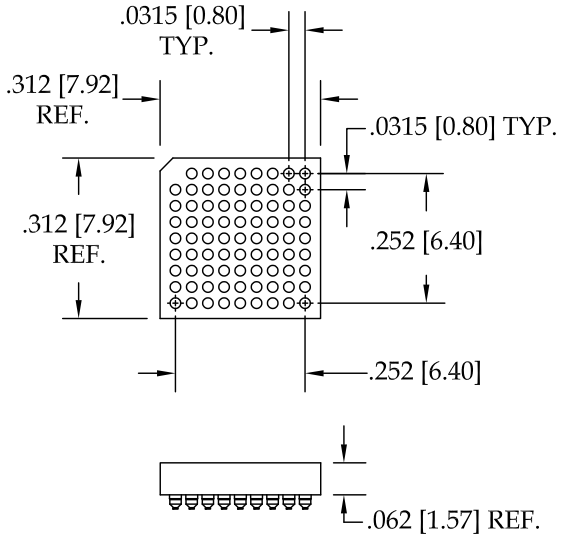


Fig. 26 80 Pins

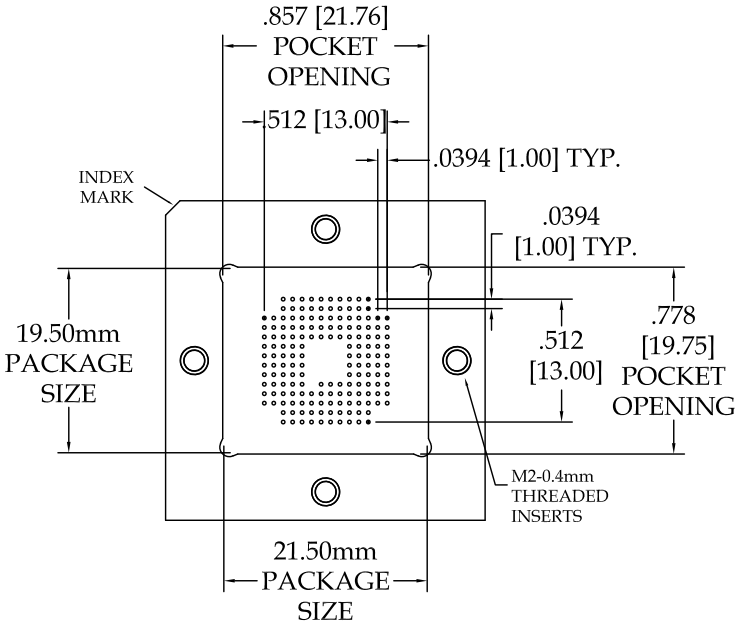
Thru-Hole: 17-09-05-080-437T-R27-L14
Surface Mount: 17-09-05-080-329T-R27-L14
Adapter: 17-09-05-080-321-G10-L14

RoHS Compliant
Andon Proprietary Information
*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

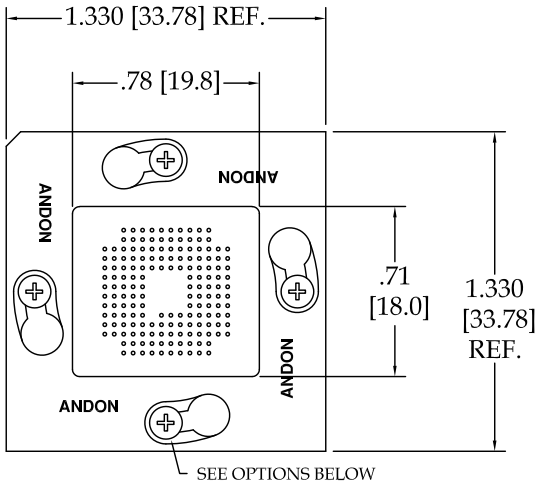
ON Semiconductor *Continued*

Image Sensor Socket Footprints

Units: in [mm]



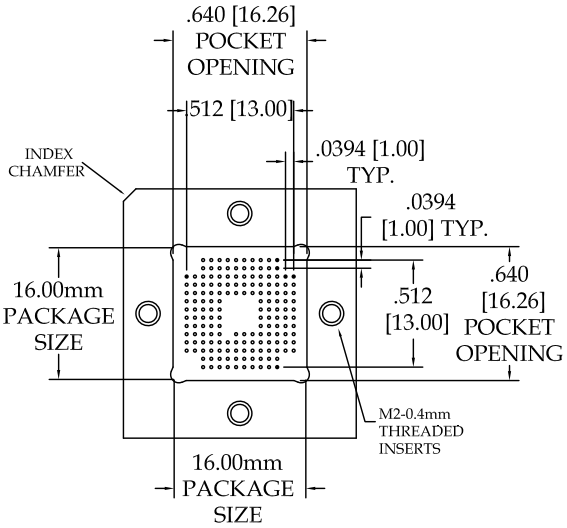
GUIDE & BASE SHOWN



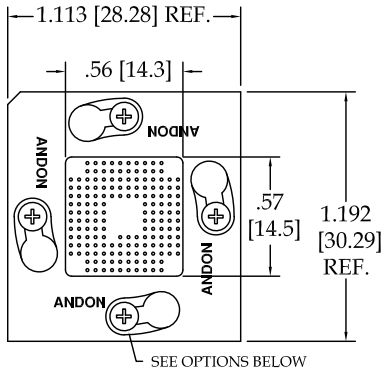
COVER & HARDWARE SHOWN

Fig. 27 163 Pins

Thru-Hole: 694-163A-TH-491-R27-L14-1
Surface Mount: 694-163A-SM-500-R27-L14-1
Rollerball® : 694-163A-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 28 163 Pins

Thru-Hole: 694-163B-TH-491-R27-L14-1
Surface Mount: 694-163B-SM-500-R27-L14-1
Rollerball® : 694-163B-SM-RB593-R27-L14-1

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

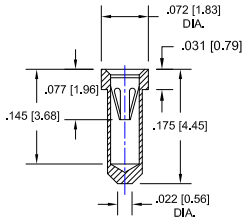
Socket Terminal Details

Cross Section View Shown Units: in [mm]

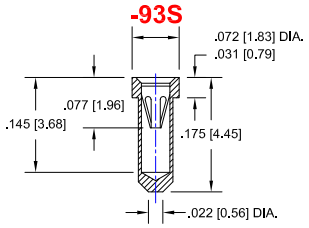
Other Terminal Layouts and Configurations available

SURFACE MOUNT OPTION

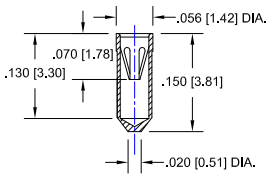
-93M



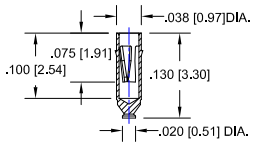
-93S



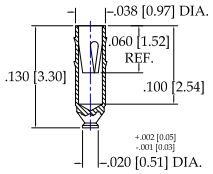
-265M



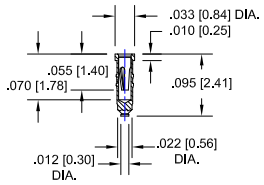
-281U



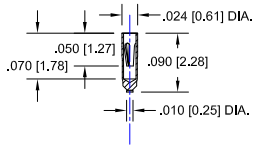
-281UM



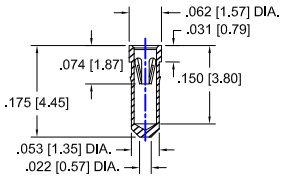
-319T



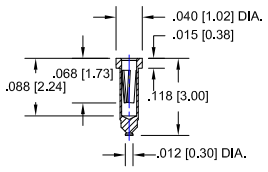
-329T



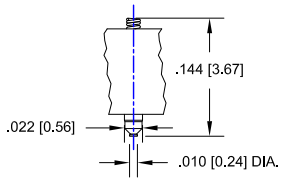
-384S



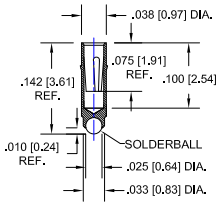
-414T4



SM-500

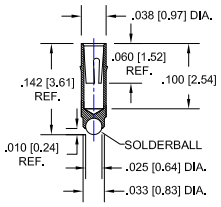


-RB338K



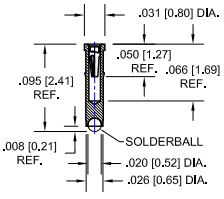
ROLLERBALL® SOCKET

-RB338UM



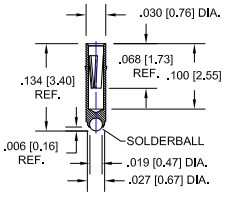
ROLLERBALL® SOCKET

-RB339T



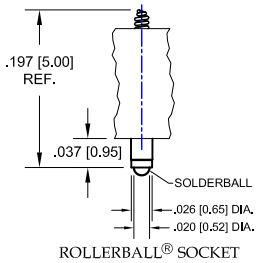
ROLLERBALL® SOCKET

-RB501T4

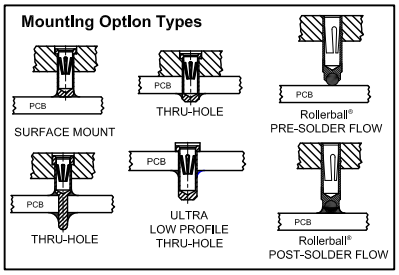


ROLLERBALL® SOCKET

-RB593



ROLLERBALL® SOCKET



Surface Mount Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force
-93S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-329T	Ø.010 [Ø0.25]	1.00 oz Max	0.30 oz Min
-384S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-265M	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
-93M	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
-414T4	Ø.012 [Ø0.30]	1.05 oz Max	0.32 oz Min
-319T	Ø.010 [Ø0.25]	1.00 oz Max	0.30 oz Min
-281U	Ø.018 [Ø0.46]	2.80 oz Max	0.50 oz Min
-281UM	Ø.018 [Ø0.46]	2.11 oz Max	0.53 oz Min
-SM-500	-	-	-
-RB338K	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min
-RB338UM	Ø.018 [Ø0.46]	2.11 oz Max	0.53 oz Min
-RB339T	Ø.010 [Ø0.25]	1.00 oz Max	0.30 oz Min
-RB501T4	Ø.012 [Ø0.30]	1.05 oz Max	0.32 oz Min

Material:
Insulator: Hi-Temp UL 94V-O
Terminal: Brass, per ASTM-B16
Contact: BeCu, Per ASTM-B194

Technical Information

Plating: RoHS COMPLIANT
R27 TERMINAL: GOLD / CONTACT: GOLD
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN
OTHER PLATINGS AVAILABLE

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

ON Semiconductor *Continued*

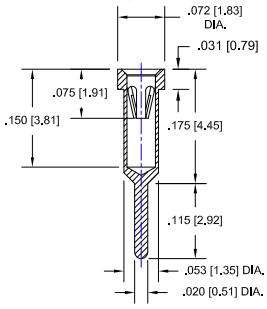
Socket Terminal Details

Cross Section View Shown Units: in [mm]

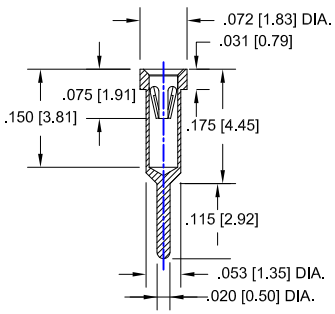
Other Terminal Layouts and Configurations available

THRU HOLE OPTION

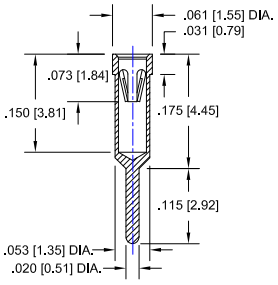
-01M



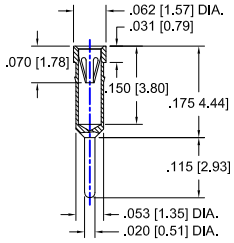
-01S



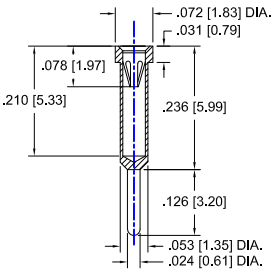
-75M



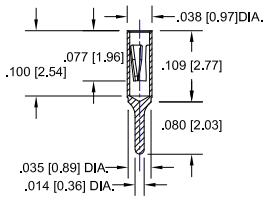
-75S



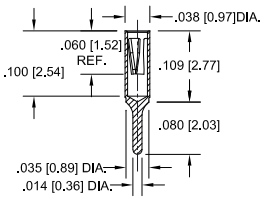
-80S



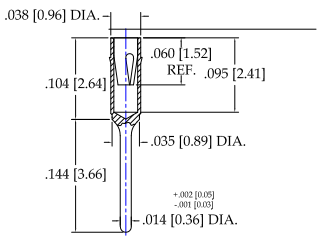
-274U



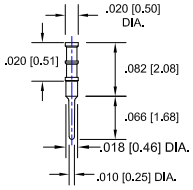
-274UM



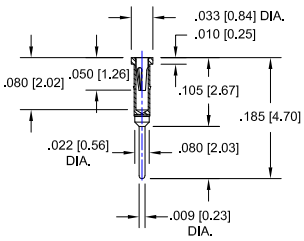
-284UM



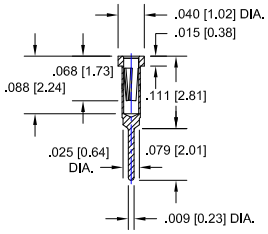
-321



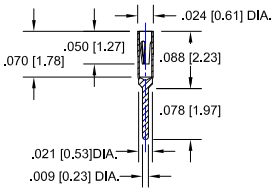
-347T



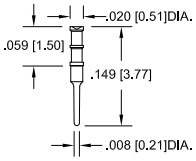
-400T4



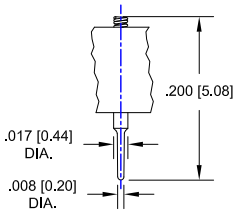
-437T

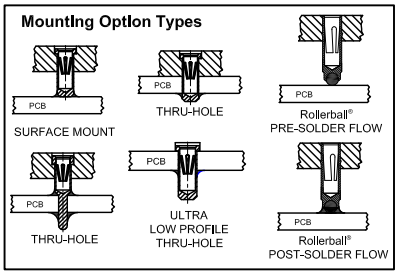


-491



TH-491





Thru Hole Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force
-80S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-437T	Ø.010 [Ø0.25]	1.00 oz Max	0.30 oz Min
-75S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-75M	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
-01M	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
-400T4	Ø.012 [Ø0.30]	1.05 oz Max	0.32 oz Min
-347T	Ø.010 [Ø0.25]	1.00 oz Max	0.30 oz Min
-274U	Ø.018 [Ø0.46]	2.80 oz Max	0.50 oz Min
-274UM	Ø.018 [Ø0.46]	2.11 oz Max	0.53 oz Min
-284UM	Ø.018 [Ø0.46]	2.11 oz Max	0.53 oz Min
-TH-491	-	-	-

Material:

Insulator: Hi-Temp UL 94V-O
Terminal: Brass, per ASTM-B16
Contact: BeCu, Per ASTM-B194

Technical Information

Plating: RoHS COMPLIANT

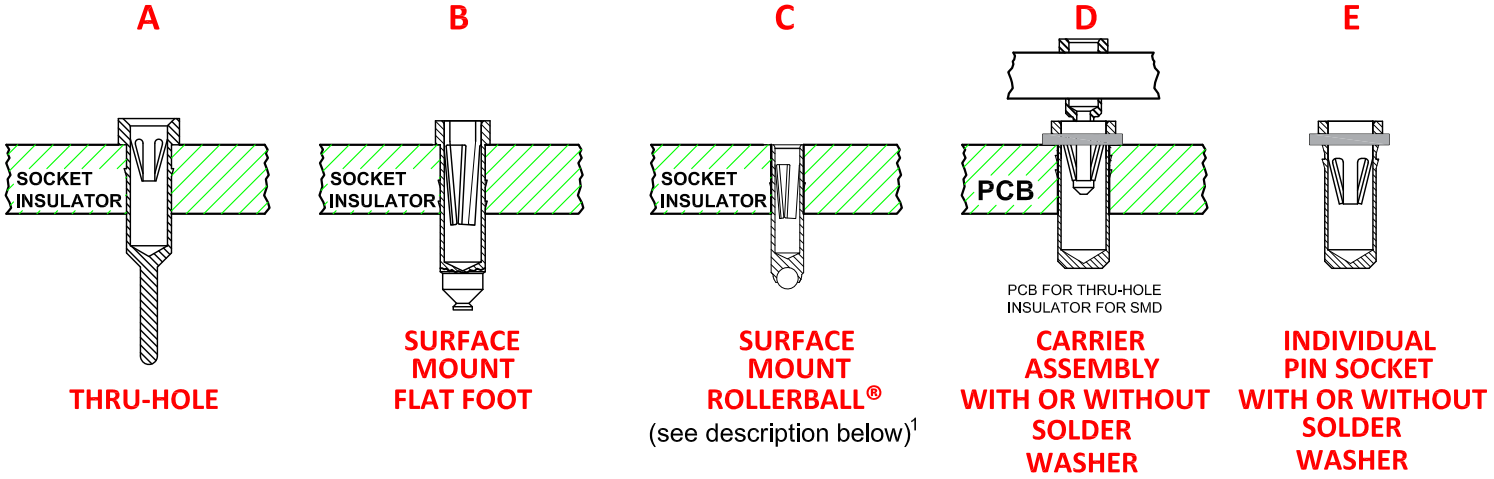
R27 TERMINAL: GOLD / CONTACT: GOLD
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN
OTHER PLATINGS AVAILABLE

RoHS Compliant

Andon Proprietary Information

*Sockets are not drawn to scale **ON Semiconductor** 03/31/2022

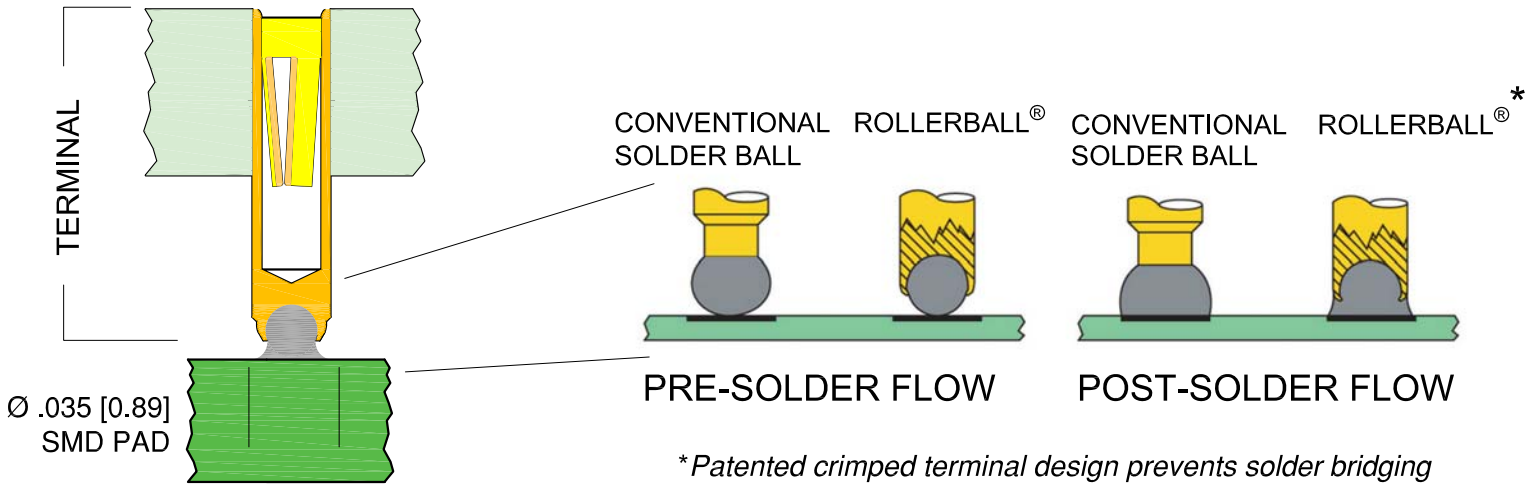
Socket Mounting Options



[1]Andon's patented Rollerball® socket terminal option provides more accurate soldering, a stronger connection, and improved electrical connectivity - especially under shock and vibration - than other solder ball terminal designs. Better yet, it can enable you to avoid expensive rework and scrap - especially with larger PCBs where coplanarity is an inherent challenge.

The bottom of these terminals has a radiused hole, to prevent gas entrapment. The terminal is crimped over the solder ball beyond its hemisphere, encapsulating it - leaving just enough of the solder ball exposed to provide sufficient solder without the solder bridging common in conventional solder ball terminal designs.

With this unique design, the critical distance between the terminal and the PC board pad is typically reduced from .036”-.040” to .018”-.022”. As such, the solder becomes part of the “anchor” cross-section - providing additional mechanical strength to the connection, as well as improved electrical connectivity. Because it also provides controlled dispersion of solder, this encapsulated solder ball reduces the risk of solder bridging inherent in conventional solder ball terminal designs.



*Patented crimped terminal design prevents solder bridging

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ANDON
INTERCONNECTION SPECIALISTS

Carrier Assembly Configurations

CERTIFIED ISO 9001 COMPANY

aia advancing VISION•IMAGING MEMBER

For fast, accurate placement of SIP sockets and ultra-low profile terminals

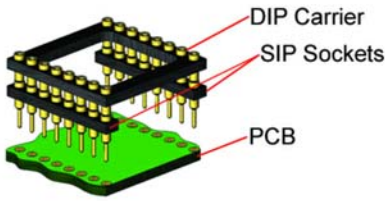
Phase 1:
Receive Carrier Assemblies designed to your pin layout.

Phase 2:
Place carrier assemblies onto PCB; run through your soldering process.

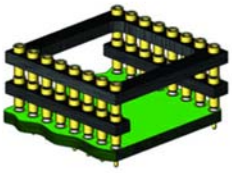
Phase 3:
Remove carrier and plug in your device; discard carrier.

DIP

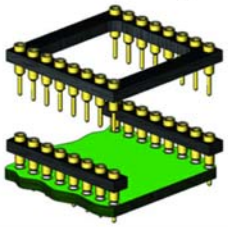
Before Soldering



During Soldering



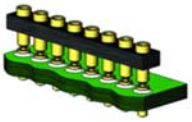
After Soldering



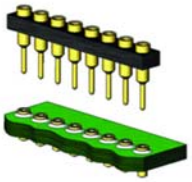
ULTRA-LOW PROFILE SIP

Before Soldering

During Soldering

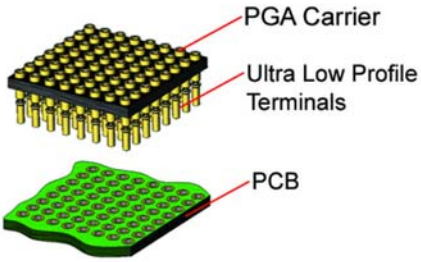


After Soldering

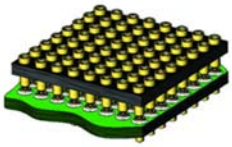


ULTRA-LOW PROFILE PGA

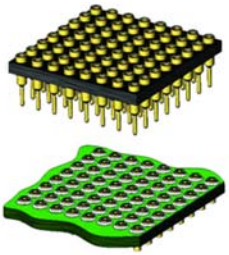
Before Soldering



During Soldering

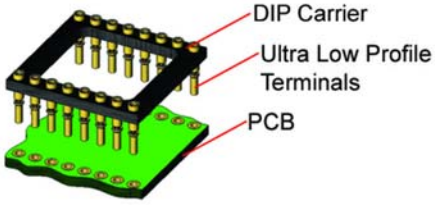


After Soldering

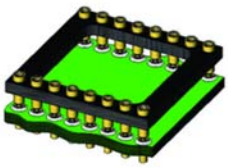


ULTRA LOW PROFILE DIP

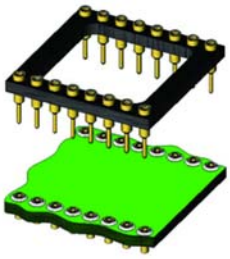
Before Soldering



During Soldering



After Soldering



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RoHS Compliant
Andon Proprietary Information

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