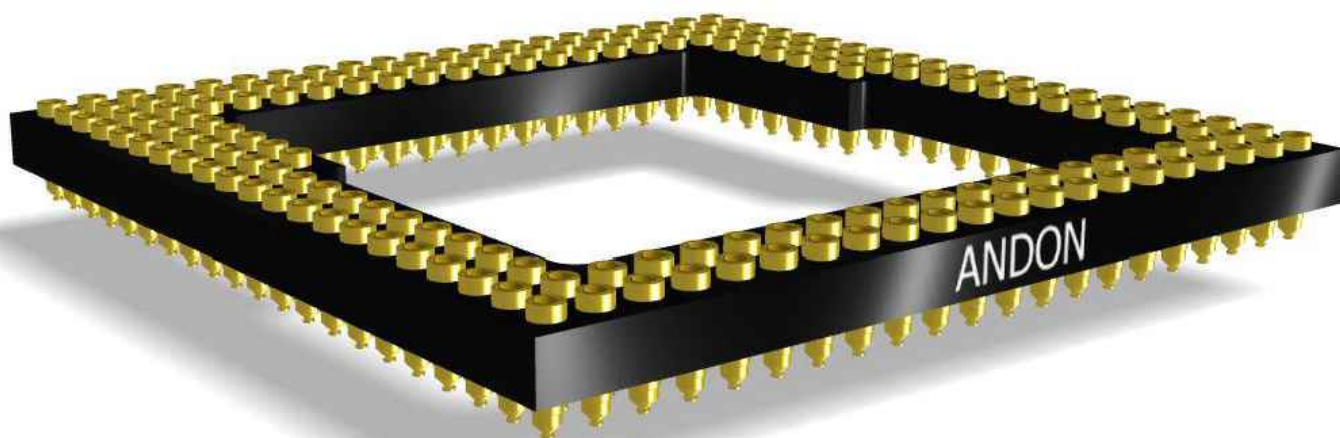




## *High-Reliability Image Sensor Sockets for Teledyne e2v*



**TELEDYNE e2v**  
Everywhereyoulook™



*Featuring Andon's Unique Senstac<sup>TM</sup> Contact*

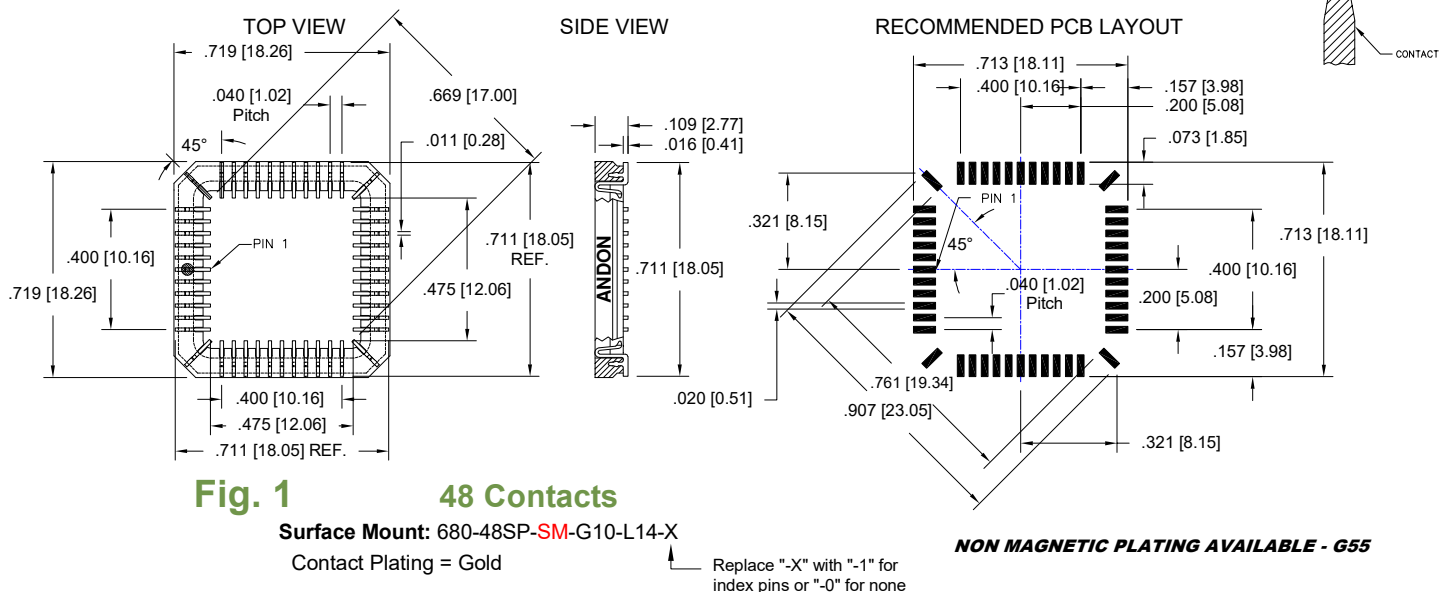
TELEDYNE e2V							
TELEDYNE e2V Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball®			
36 Pin Peltier package CCD	(2) 301-018-XXX-R29-L14	01S	93S	-	.018	29	7
AT71200M	575-19-27-088-XXX-R29-L14	01M	93M	-	.018	2	3
AT71201M	IS229-2488D-XXX-R29-L14	01M	93M	-	.018	3	3
BORA 1.3M (EV3DS1M3B-CLVN000)	585-09-02A-067-XXX-R29-L14	75M	384M	-	.018	27	7
CCD02-06dd	IS229-620-XXX-R29-L14	01S	93S	-	.018	5	3
CCD02-06ims	IS229-620-XXX-R29-L14	01S	93S	-	.018	5	3
CCD05-20ims	IS229-1644D-XXX-R29-L14	01M	93M	-	.018	15	5
CCD05-20sis	IS229-1644D-XXX-R29-L14	01M	93M	-	.018	15	5
CCD05-20-Y	IS229-1644D-XXX-R29-L14	01M	93M	-	.018	15	5
CCD05-30ims	IS229-1944D-XXX-R29-L14	01M	93M	-	.018	25	6
CCD05-30sis	IS229-1944D-XXX-R29-L14	01M	93M	-	.018	25	6
CCD201-20 BI	575-14-39-036-XXX-R29-L14	01S	93S	-	.018	19	5
CCD201-20 FI	575-14-39-036-XXX-R29-L14	01S	93S	-	.018	19	5
CCD230-42	IS229-2278T-XXX-R29-L14	01M	93M	-	.018	23	6
CCD230-84 FI	IS229-3080D-XXX-R29-L14	01M	93M	-	.018	24	6
CCD30-11BI	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD30-11dd	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD30-11DDS	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD30-11IMS	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD30-11ims	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD30-11OE	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD30-11oe	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD31-20	IS229-624-XXX-R29-L14	01S	93S	-	.018	6	3
CCD351	IS230-930-XXX-R29-L14	75S	384S	-	.018	17	5
CCD39-01BI	IS229-6124-XXX-R29-L14	01S	93S	-	.018	10	4
CCD39-02BI	IS229-6124-XXX-R29-L14	01S	93S	-	.018	10	4
CCD42-10BI	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD42-10IMS	IS229-6120-XXX-R29-L14	80S	93S	-	.018	9	4
CCD42-40aimo	IS229-1824-XXX-R29-L14	80S	93S	-	.018	13	4
CCD42-40C_AIMO_BI	IS229-1824-XXX-R29-L14	80S	93S	-	.018	13	4
CCD42-40FI_AIMO_CCP	IS229-1824-XXX-R29-L14	80S	93S	-	.018	13	4
CCD42-40FI_NIMO_CCP	IS229-1824-XXX-R29-L14	80S	93S	-	.018	13	4
CCD42-40nimo	IS229-1824-XXX-R29-L14	80S	93S	-	.018	13	4
CCD42-40NIMO_BI	IS229-1824-XXX-R29-L14	80S	93S	-	.018	13	4
CCD42-90bi	575-08-04-040-XXX-R29-L14	80M	93M	-	.018	14	5
CCD44-82	575-08-04-040-XXX-R29-L14	80M	93M	-	.018	14	5
CCD47-10	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD47-10aibt	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10aimo	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10AIMO_CP	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10BT	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD47-10BTCP	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10nibt	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10nimo	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10NIMO_BTCP	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-10NIMO_CP	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD47-20	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD47-20AIMO	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD47-20BT	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD47-20BT_NIMO	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD48-20BI_NIMO	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD55-20IMS	IS229-1644D-XXX-R29-L14	01M	93M	-	.018	15	5
CCD55-20IMS_BI	IS229-1644D-XXX-R29-L14	01M	93M	-	.018	15	5
CCD55-30	IS229-1944D-XXX-R29-L14	01M	93M	-	.018	25	6
CCD55-30BI	IS229-1944D-XXX-R29-L14	01M	93M	-	.018	25	6
CCD55-30IMS	IS229-1944D-XXX-R29-L14	01M	93M	-	.018	25	6
CCD57-10	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD60	IS229-624-XXX-R29-L14	80S	93S	-	.018	6	3
CCD62-06IMS	IS229-620-XXX-R29-L14	01S	93S	-	.018	5	3
CCD65	575-10-19-037-XXX-R29-L14	01S	93S	-	.018	18	5
CCD65 Peltier	IS230-1232-XXX-R29-L14	75S	384S	-	.018	16	5
CCD67BI_NIMO	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD67FI_NIMO	IS229-932-XXX-R29-L14	01S	93S	-	.018	12	4
CCD67FI_NIMO_CP	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD77-00BI	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD77-00FI	IS229-924-XXX-R29-L14	01S	93S	-	.018	11	4
CCD97 BI 2P IMO	IS230-930-XXX-R29-L14	75S	384S	-	.018	17	5
CCD97 FI 2P IMO	IS230-930-XXX-R29-L14	75S	384S	-	.018	17	5
CCD97 Peltier BI2PIMO	IS230-1232-XXX-R29-L14	75S	384S	-	.018	16	5
CCD97 Peltier FI2PIMO	IS230-1232-XXX-R29-L14	75S	384S	-	.018	16	5

— Add ".3M" for pick-and-place tape

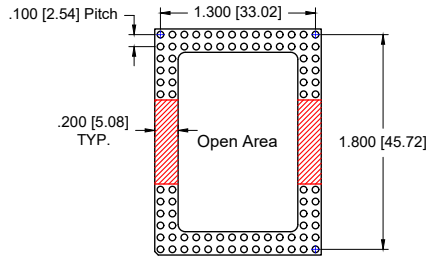
TELEDYNE e2V							
TELEDYNE e2V Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball ®			
CIS120	575-15-70A-086-XXX-R27-L14	01M	93M	-	.018	41	11
EMERALD GEN2 -8.9 MONO (EV2S8M9B-CLM0150-T / EV2S8M9B-CLM0350-T)	694-224B-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	44	12
EMERALD GEN2 -8.9 COLOR (EV2S8M9C-CLM0150-T / EV2S8M9C-CLM0350-T)	694-224B-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	44	12
EMERALD GEN2 -12 MONO (EV2S12MB-CLM0150-T / EV2S12MB-CLM0350-T)	694-224B-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	44	12
EMERALD GEN2 -12 COLOR (EV2S12MC-CLM0150-T / EV2S12MC-CLM0350-T)	694-224B-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	44	12
EMERALD 2M (EV2S02MB-CM2 / EV2S02MC-CM2)	694-112-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	34	9
EMERALD 3.2M (EV2S3M2B-CM2 / EV2S3M2C-CM2)	694-112A-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	39	10
EMERALD 5M (EV2S05MB-CM2 / EV2S05MC-CM2)	694-112A-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	39	10
EMERALD 8.9M (EV2S8M9B-CLV / EV2S8M9C-CLV)	694-224-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	33	8
EMERALD 12M (EV2S12MB-CLV) / EV2S12MC-CLV)	694-224-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	33	8
EMERALD 16M (EV2S16MB-CLV / EV2S16MC-CLV)	694-224-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	33	8
EMERALD 36M (EV2S36MB-CM2 / EV2S36MC-CM2)	10-31-24-369-XXXX-R27-L14	400T4	414T4	RB501T4	.012	36	9
EMERALD 67M (EV2S67MB-CLV / EV2S67MC-CLV)	10-31-24-369-XXXX-R27-L14	400T4	414T4	RB501T4	.012	36	9
FLASH 2K LSA	10-19-10-228-XXX-R27-L14	400T4	414T4	RB501T4	.012	37	10
FLASH 2K	10-19-10-228-XXX-R27-L14	400T4	414T4	RB501T4	.012	37	10
FLASH 4K	10-35-06-380-XXX-R27-L14	400T4	414T4	RB501T4	.012	38	10
HYDRA3D	694-185-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	40	11
JADE 0.5M-EV76C454	680-48SP-SM-G10-X14-0	-	-	-	-	1	2
LINCE11M	10-37-03-415-XXXX-R27-L14	400T4	414T4	RB501T4	.012	35	9
LINCE5M181 (L181C1V5 / L181M1V5)	10-21-07A-181-XXXX-R27-L14	400T4	414T4	RB501T4	.012	28	7
LINCE5M84 (L84C1V5CUST / L84M1V5CUST)	620-84-SM-G10-L14-X	-	-	-	-	30	7
LINCE6M5 (L6M1V5 / L6C1V5)	10-21-08A-179-XXXX-R27-L14	400T4	414T4	RB501T4	.012	32	8
LS4K	IS230-640-XXX-R29-L14	75S	384S	-	.018	31	8
ONYX 1.3M (EV76C664)	585-09-02A-067-XXX-R29-L14	75M	384M	-	.018	27	7
ONYX 2M (EV76C771)	12-18-09A-128-XXXX-R27-L14	400T4	414T4	RB501T4	.012	26	7
RUBY 1.3M (EV76C660 / EV76C661)	680-48SP-SM-G10-X14-0	-	-	-	-	1	2
SAPPHIRE 1.3M (EV76C560)	680-48SP-SM-G10-X14-0	-	-	-	-	1	2
SAPPHIRE 2M (EV76C570)	680-48SP-SM-G10-X14-0	-	-	-	-	1	2
SHINER	575-33-02-430-XXX-R27-L14	01P28	93P28	RB607P28	.018	42	11
SNAPPY 5M	694-112A-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	39	10
SNAPPY WIDE	683-326A-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	43	12
TH7804ACC	IS229-624-XXX-R29-L14	80S	93S	-	.018	6	3
TH7813A	IS229-420-XXX-R29-L14	01S	93S	-	.018	4	3
TH7814A	IS229-420-XXX-R29-L14	01S	93S	-	.018	4	3
TH7815A	IS229-420-XXX-R29-L14	01S	93S	-	.018	4	3
TH7817A	IS229-420-XXX-R29-L14	01S	93S	-	.018	4	3
TH7818A	IS229-420-XXX-R29-L14	01S	93S	-	.018	4	3
TH7819A	IS229-420-XXX-R29-L14	01S	93S	-	.018	4	3
TH7834CCC-RB	IS229-656-XXX-R29-L14	01M	93M	-	.018	8	4
TH7841ACC	IS229-628-XXX-R29-L14	80S	93S	-	.018	7	3
TH7888A	409-210-XXX-R29-L14	80S	93S	-	.018	20	6
TH7891M	575-16-26-032-XXX-R29-L14	01S	93S	-	.018	21	6
TH7899M	575-15-62-082-XXX-R29-L14	80M	93M	-	0.018	22	6

↑ Add ".3M" for pick-and-place tape

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



**TELEDYNE e2V Continued**  
**Image Sensor Socket Footprints**  
*Units: in [mm]*



**Fig. 2 88 Pins**

**Thru-Hole:** 575-19-27-088-01M-R29-L14

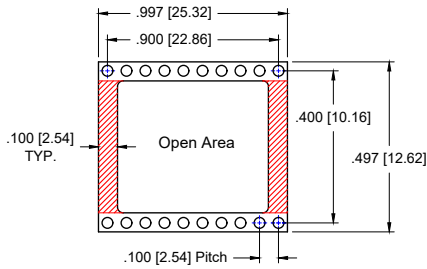
**Surface Mount:** 575-19-27-088-93M-R29-L14

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

9-575-19-27-088-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 4 20 Pins**

**Thru-Hole:** IS229-420-01S-R29-L14

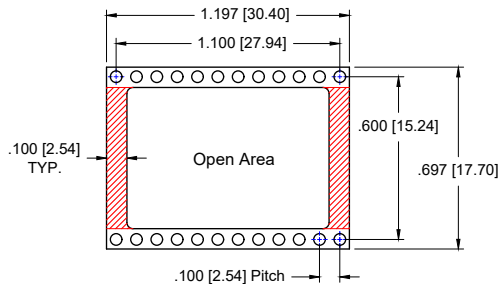
**Surface Mount:** IS229-420-93S-R29-L14

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

9-IS229-420-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 6 24 Pins**

**Thru-Hole:** IS229-624-01S-R29-L14

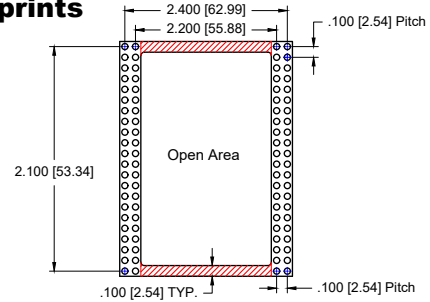
**Surface Mount:** IS229-624-93S-R29-L14

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

9-IS229-624-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 3 88 Pins**

**Thru-Hole:** IS229-2488D-01M-R29-L14

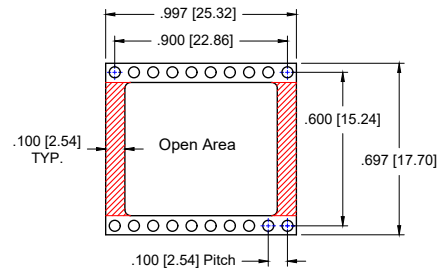
**Surface Mount:** IS229-2488D-93M-R29-L14

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

9-IS229-2488D-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 5 20 Pins**

**Thru-Hole:** IS229-620-01S-R29-L14

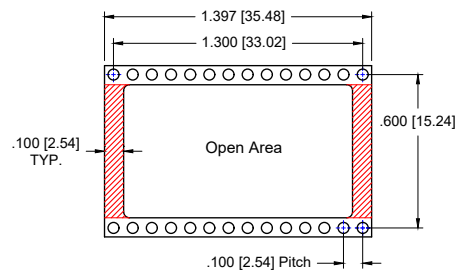
**Surface Mount:** IS229-620-93S-R29-L14

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

9-IS229-620-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 7 28 Pins**

**Thru-Hole:** IS229-628-80S-R29-L14

**Surface Mount:** IS229-628-93S-R29-L14

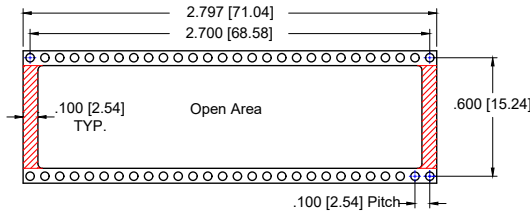
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-IS229-628-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

## TELEDYNE e2V *Continued* Image Sensor Socket Footprints Units: in [mm]



**Fig. 8**      **56 Pins**

**Thru-Hole:** IS229-656-01M-R29-L14

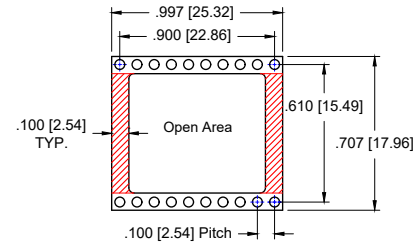
**Surface Mount:** IS229-656-93M-R29-L14

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

9-IS229-656-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 9**      **20 Pins**

**Thru-Hole:** IS229-6120-80S-R29-L14

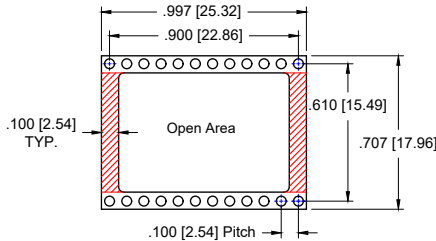
**Surface Mount:** IS229-6120-93S-R29-L14

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

9-IS229-6120-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 10**      **20 Pins**

**Thru-Hole:** IS229-6120-80S-R29-L14

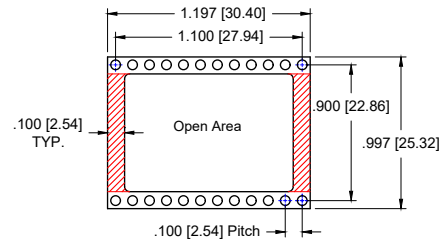
**Surface Mount:** IS229-6120-93S-R29-L14

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

9-IS229-6120-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 11**      **24 Pins**

**Thru-Hole:** IS229-924-01S-R29-L14

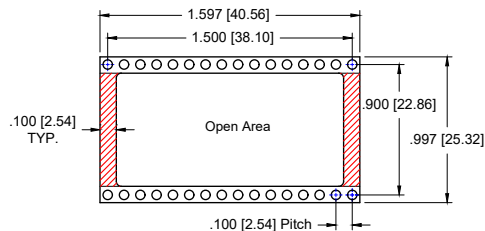
**Surface Mount:** IS229-924-93S-R29-L14

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

9-IS229-924-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 12**      **32 Pins**

**Thru-Hole:** IS229-932-01S-R29-L14

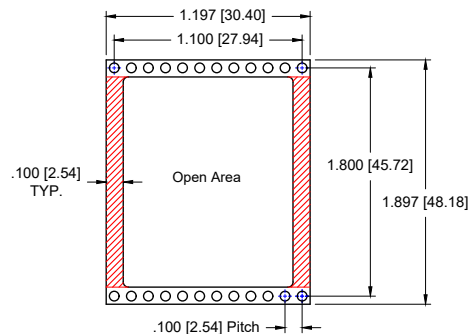
**Surface Mount:** IS229-932-93S-R29-L14

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

9-IS229-932-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



**Fig. 13**      **24 Pins**

**Thru-Hole:** IS229-1824-80S-R29-L14

**Surface Mount:** IS229-1824-93S-R29-L14

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

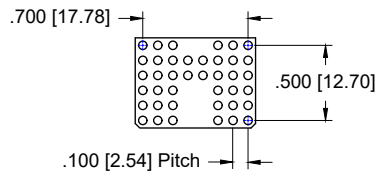
9-IS229-1824-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

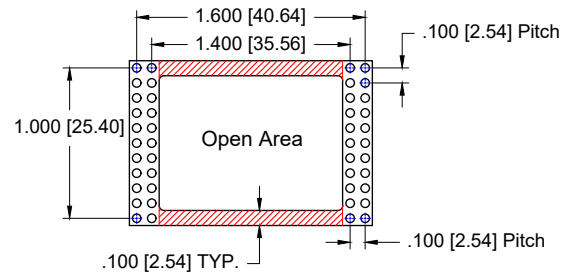
See last page for other Carrier Assembly configurations.



## TELEDYNE e2V *Continued* Image Sensor Socket Footprints Units: in [mm]

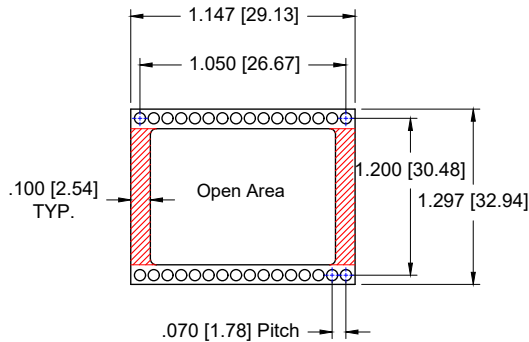


**Fig. 14 40 Pins**  
Thru-Hole: 575-08-04-040-**80M**-R29-L14  
Surface Mount: 575-08-04-040-**93M**-R29-L14

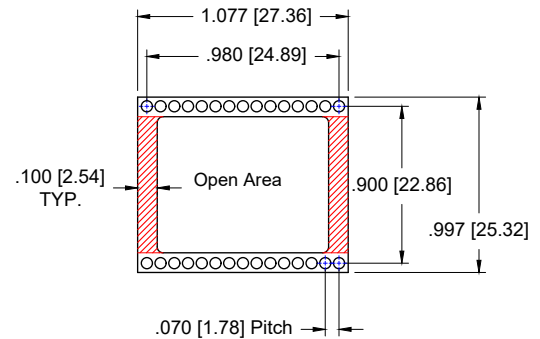


**Fig. 15 44 Pins**  
Thru-Hole: IS229-1644D-**01M**-R29-L14  
Surface Mount: IS229-1644D-**93M**-R29-L14  
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

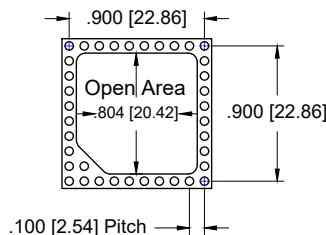
9-IS229-1644D-XXX-R29-L14-SIP  
Replace "XXX" with choice of terminal  
See last page for other Carrier Assembly configurations.



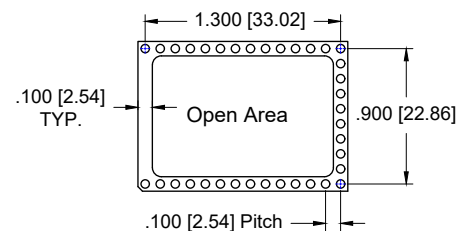
**Fig. 16 32 Pins**  
Thru-Hole: IS230-1232-**75S**-R29-L14  
Surface Mount: IS230-1232-**384S**-R29-L14  
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:  
9-IS230-1232-XXX-R29-L14-SIP  
Replace "XXX" with choice of terminal  
See last page for other Carrier Assembly configurations.



**Fig. 17 30 Pins**  
Thru-Hole: IS230-930-**75S**-R29-L14  
Surface Mount: IS230-930-**384S**-R29-L14  
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:  
9-IS230-930-XXX-R29-L14-SIP  
Replace "XXX" with choice of terminal  
See last page for other Carrier Assembly configurations.

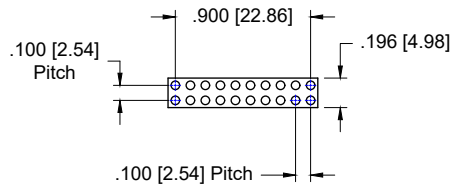


**Fig. 18 37 Pins**  
Thru-Hole: 575-10-19-037-**01S**-R29-L14  
Surface Mount: 575-10-19-037-**93S**-R29-L14

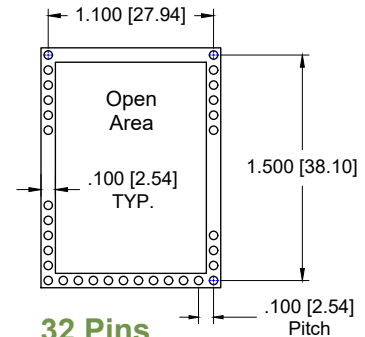


**Fig. 19 36 Pins**  
Thru-Hole: 575-14-39-036-**01S**-R29-L14  
Surface Mount: 575-14-39-036-**93S**-R29-L14

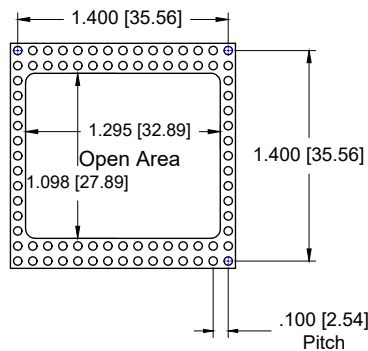
## TELEDYNE e2V *Continued* Image Sensor Socket Footprints Units: in [mm]



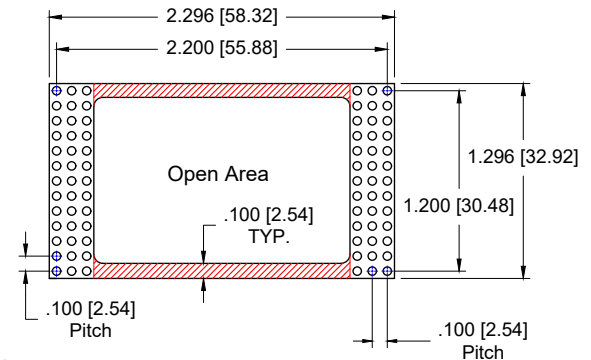
**Fig. 20**      **20 Pins**  
Thru-Hole: 409-210-**80S**-R29-L14  
Surface Mount: 409-210-**93S**-R29-L14



**Fig. 21**      **32 Pins**  
Thru-Hole: 575-16-26-032-**01S**-R29-L14  
Surface Mount: 575-16-26-032-**93S**-R29-L14



**Fig. 22**      **82 Pins**  
Thru-Hole: 575-15-62-082-**80M**-R29-L14  
Surface Mount: 575-15-62-082-**93M**-R29-L14

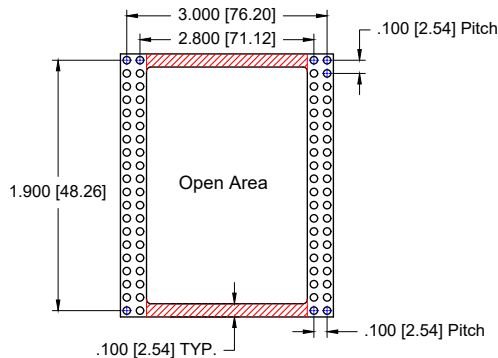


**Fig. 23**      **78 Pins**  
Thru-Hole: IS229-2278T-**01M**-R29-L14  
Surface Mount: IS229-2278T-**93M**-R29-L14  
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-IS229-2278T-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

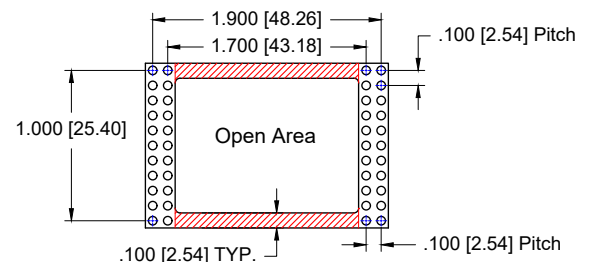


**Fig. 24**      **80 Pins**  
Thru-Hole: IS229-3080D-**01M**-R29-L14  
Surface Mount: IS229-3080D-**93M**-R29-L14  
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-IS229-3080D-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.



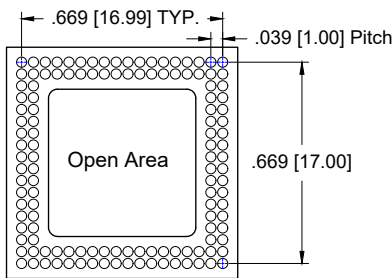
**Fig. 25**      **44 Pins**  
Thru-Hole: IS229-1944D-**01M**-R29-L14  
Surface Mount: IS229-1944D-**93M**-R29-L14  
Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:

9-IS229-1944D-XXX-R29-L14-SIP

Replace "XXX" with choice of terminal

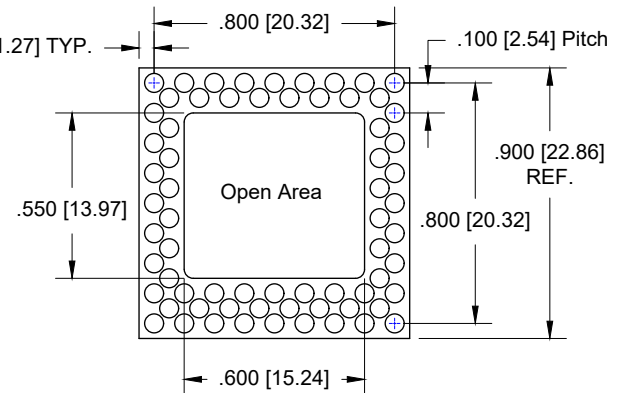
See last page for other Carrier Assembly configurations.

## TELEDYNE e2V *Continued* Image Sensor Socket Footprints Units: in [mm]



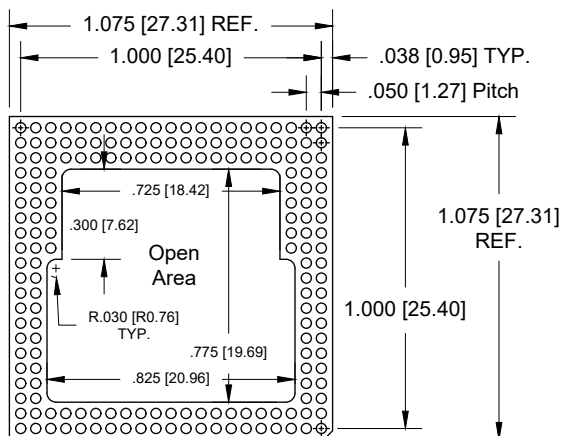
**Fig. 26** 128 Pins

Thru-Hole: 12-18-09A-128-**400T4**-R27-L14  
Surface Mount: 12-18-09A-128-**414T4**-R27-L14



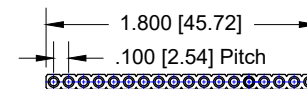
**Fig. 27** 67 Pins

Thru-Hole: 585-09-02A-067-**75M**-R29-L14  
Surface Mount: 585-09-02A-067-**384M**-R29-L14



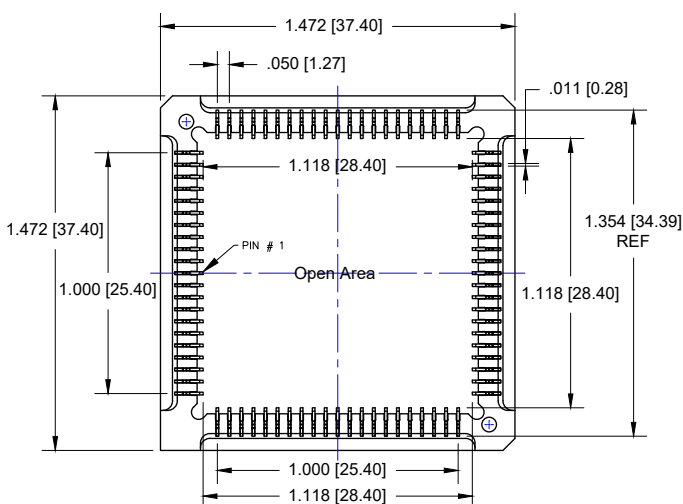
**Fig. 28** 181 Pins

Thru-Hole: 10-21-07A-181-**400T4**-R27-L14  
Surface Mount: 10-21-07A-181-**414T4**-R27-L14  
Rollerball®: 10-21-07A-181-**RB501T4**-R27-L14



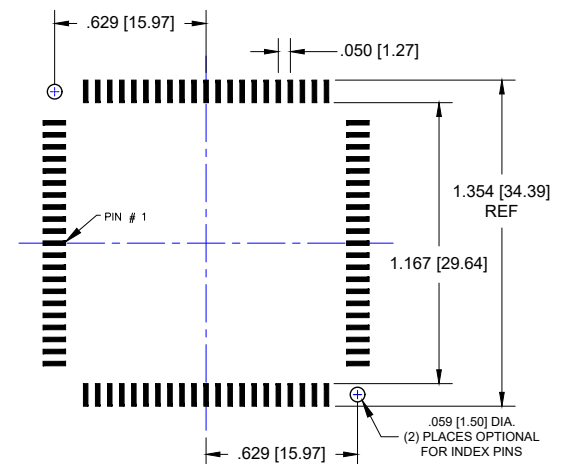
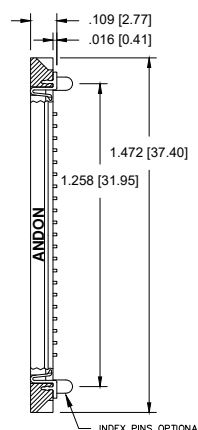
**Fig. 29** 18 Pins

Thru-Hole: (2) 301-018-**01S**-R29-L14  
Surface Mount: (2) 301-018-**93S**-R29-L14



**Fig. 30** 84 Contacts

Surface Mount: 620-84-**SM**-G10-L14-X



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\*Sockets are not drawn to scale TELEDYNE e2v 6/06/2024

**RoHS Compliant**

**Andon Proprietary Information**

**ANDON ELECTRONICS CORPORATION**  
4 Court Drive, Lincoln RI 02865, United States of America

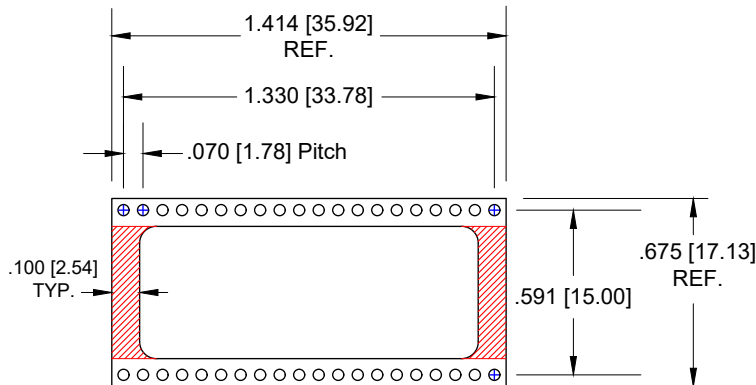
[www.andonelectronics.com](http://www.andonelectronics.com) or [www.andonelect.com](http://www.andonelect.com)

Phone: 401-333-0388 Fax: 401-333-0287

Email: [Info@andonelect.com](mailto:Info@andonelect.com)



## TELEDYNE e2V *Continued* Image Sensor Socket Footprints Units: in [mm]



**Fig. 31 40 Pins**

Thru-Hole: IS230-640-75S-R29-L14

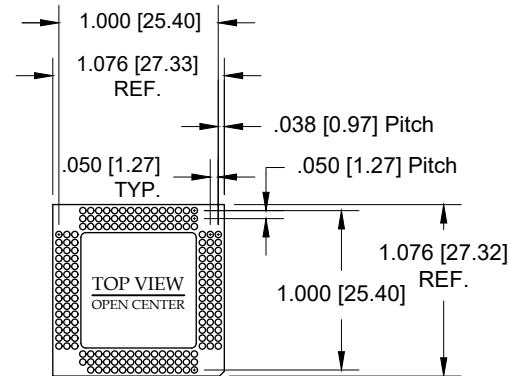
Surface Mount: IS230-640-384S-R29-L14

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

9-IS230-640-XXX-R29-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

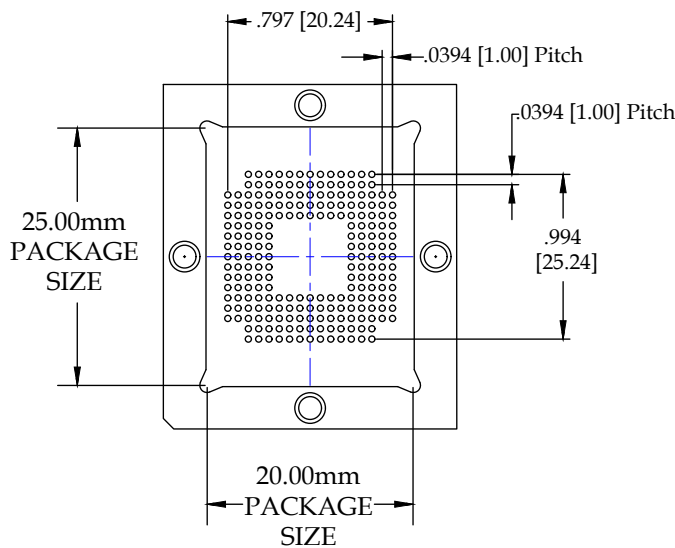


**Fig. 32 179 Pins**

Thru-Hole: 10-21-08A-179-400T4-R27-L14

Surface Mount: 10-21-08A-179-414T4-R27-L14

Rollerball®: 10-21-08A-179-RB501T4-R27-L14

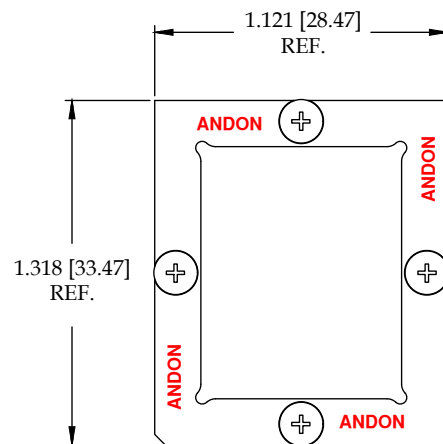


**Fig. 33 244 Pins**

Thru-Hole: 694-224-TH-491-R27-L14-X

Surface Mount: 694-224-SM-500-R27-L14-X

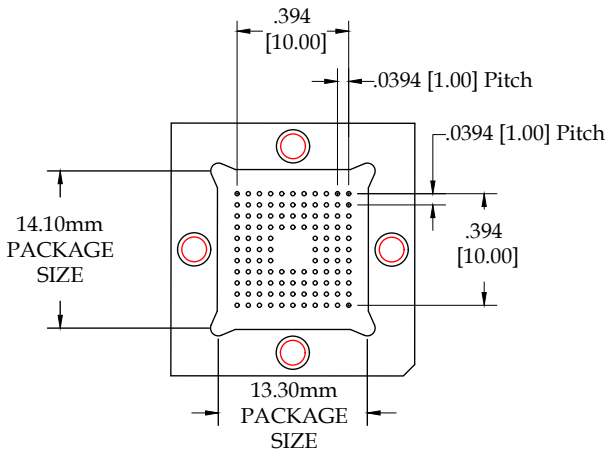
Rollerball®: 694-224-SM-RB593-R27-L14-X



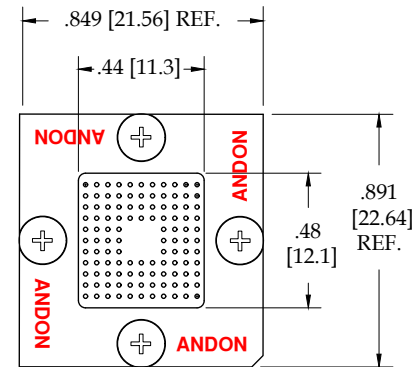
**Fig. 33 244 Pins**

**TELEDYNE e2V Continued**  
**Image Sensor Socket Footprints**  
 Units: in [mm]

TOP VIEW

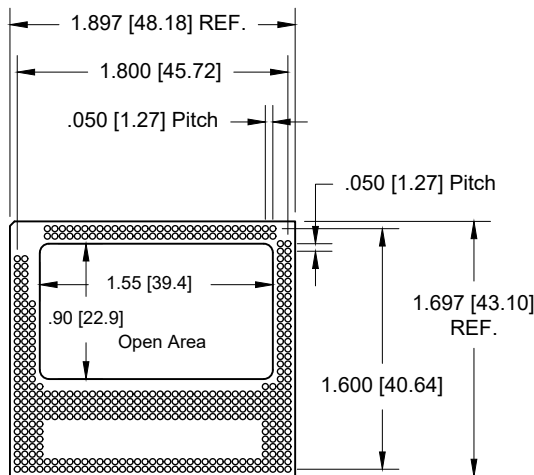


GUIDE & BASE SHOWN

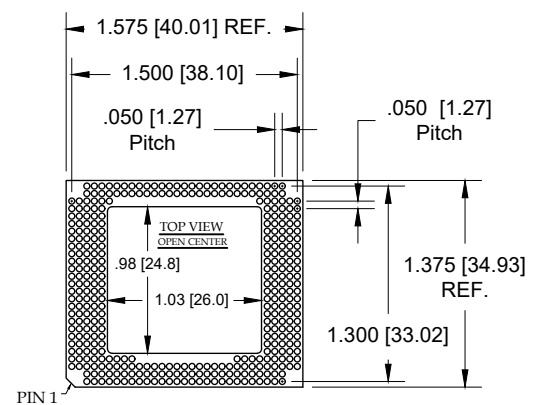


COVER & HARDWARE SHOWN

**Fig. 32 112 Pins**  
 Thru-Hole: 694-112-TH-491-R27-L14-X  
 Surface Mount: 694-112-SM-500-R27-L14-X  
 Rollerball®: 694-112-SM-RB593-R27-L14-X



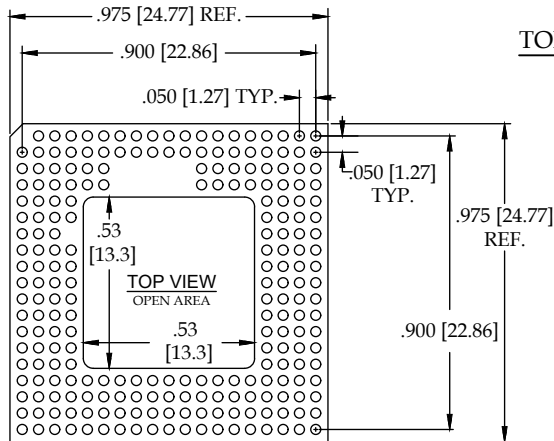
**Fig. 35 415 Pins**  
 Thru-Hole: 10-37-03-415-400T4-R27-L14  
 Surface Mount: 10-37-03-415-414T4-R27-L14  
 Rollerball®: 10-37-03-415-RB501T4-R27-L14



**Fig. 36 369 Pins**  
 Thru-Hole: 10-31-24-369-400T4-R27-L14  
 Surface Mount: 10-31-24-369-414T4-R27-L14  
 Rollerball®: 10-31-24-369-RB501T4-R27-L14

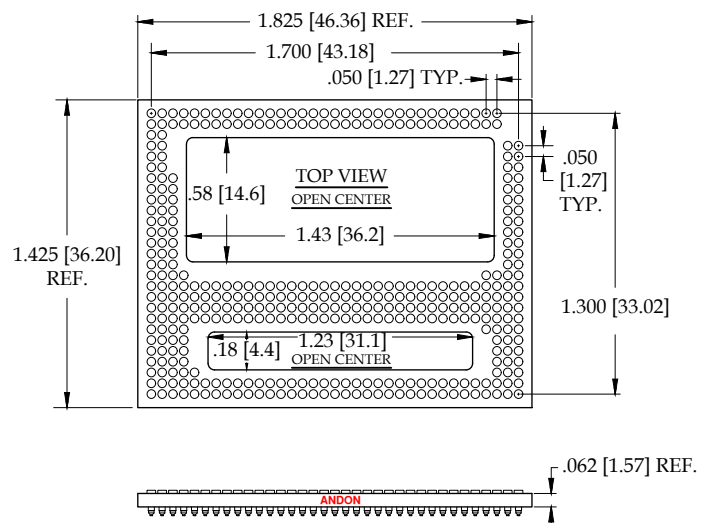
## TELEDYNE e2V *Continued* Image Sensor Socket Footprints

Units: in [mm]



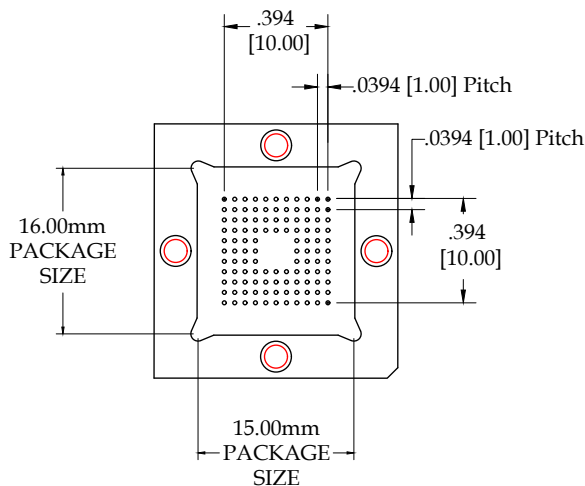
**Fig. 37 228 Pins**

Thru-Hole: 10-19-10-228-400T4-R27-L14  
Surface Mount: 10-19-10-228-414T4-R27-L14  
Rollerball®: 10-19-10-228-RB501T4-R27-L14

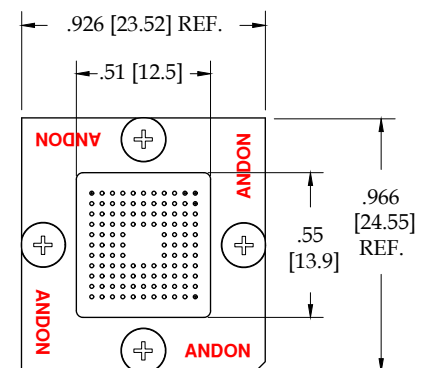


**Fig. 38 380 Pins**

Thru-Hole: 10-35-06-380-400T4-R27-L14  
Surface Mount: 10-35-06-380-414T4-R27-L14  
Rollerball®: 10-35-06-380-RB501T4-R27-L14



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

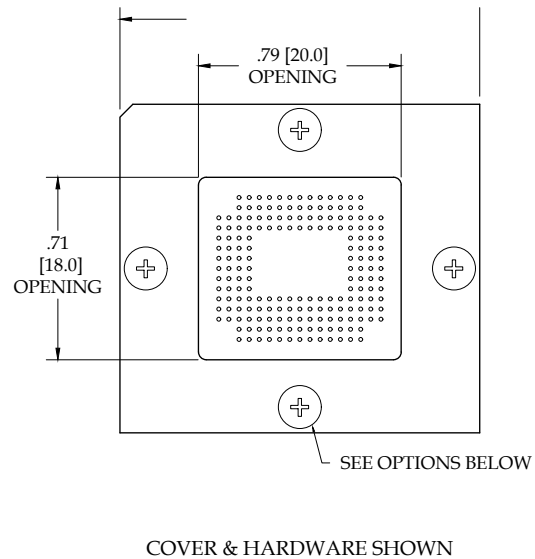
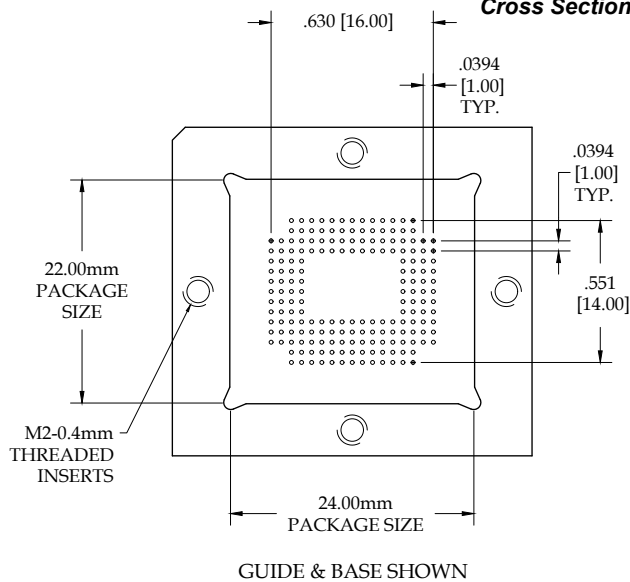
**Fig. 39 112 Pins**

Thru-Hole: 694-112A-TH-491-R27-L14-X  
Surface Mount: 694-112A-SM-500-R27-L14-X  
Rollerball®: 694-112A-SM-RB593-R27-L14-X

## TELEDYNE e2V Continued

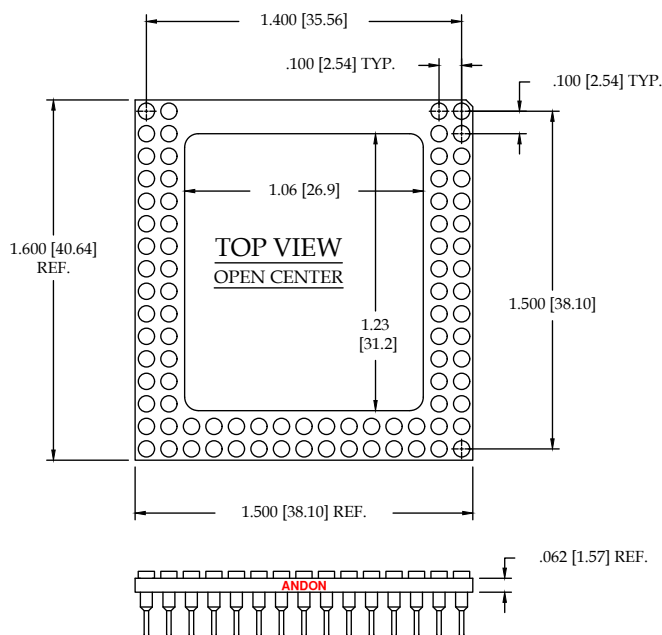
### Socket Terminal Details

Cross Section View Shown Units: in[mm]



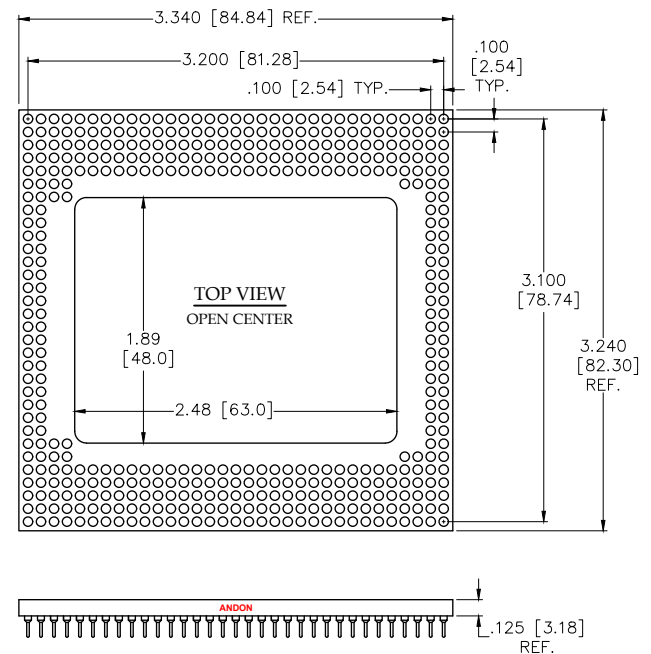
**Fig. 40 185 Pins**

Thru-Hole: 694-185-**TH-491**-R27-L14-X  
Surface Mount: 694-185-**SM-500**-R27-L14-X  
Rollerball®: 694-185-**SM-RB593**-R27-L14-X



**Fig. 41 86 Pins**

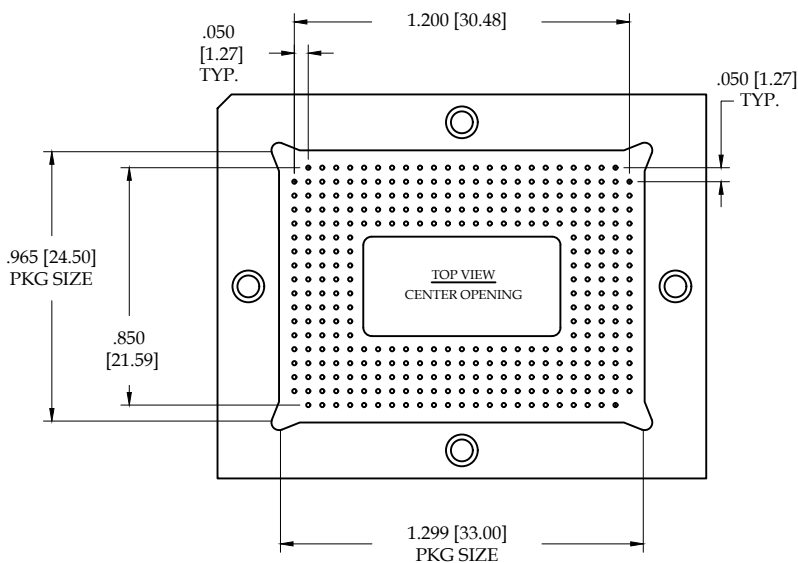
Thru-Hole: 575-15-70A-086-**01M**-R27-L14  
Surface Mount: 575-15-70A-086-**93M**-R27-L14  
Rollerball®: 575-15-70A-086-**RB338K**-R27-L14



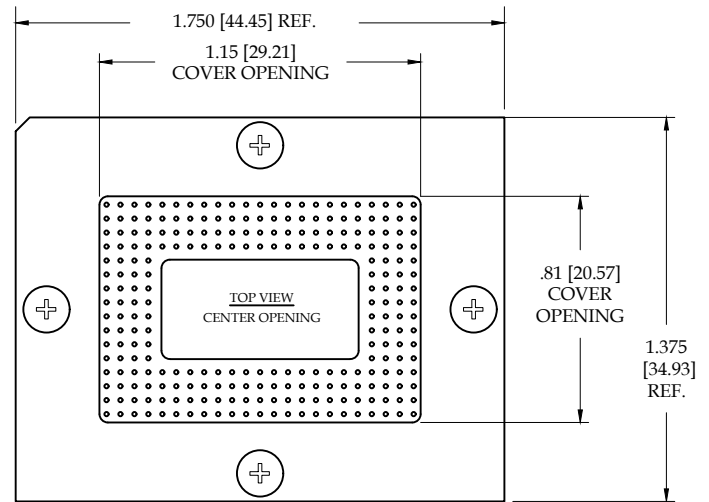
**Fig. 42 430 Pins**

Thru-Hole: 575-33-02-430-**01P28**-R27-L14  
Surface Mount: 575-33-02-430-**93P28**-R27-L14  
Rollerball®: 575-33-02-430-**RB607P28**-R27-L14

**TELEDYNE e2V Continued**  
**Socket Terminal Details**  
*Cross Section View Shown Units: in[mm]*



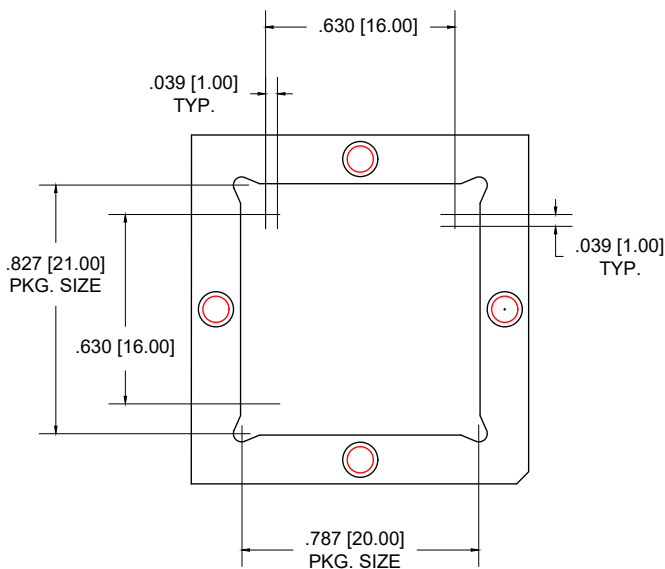
GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

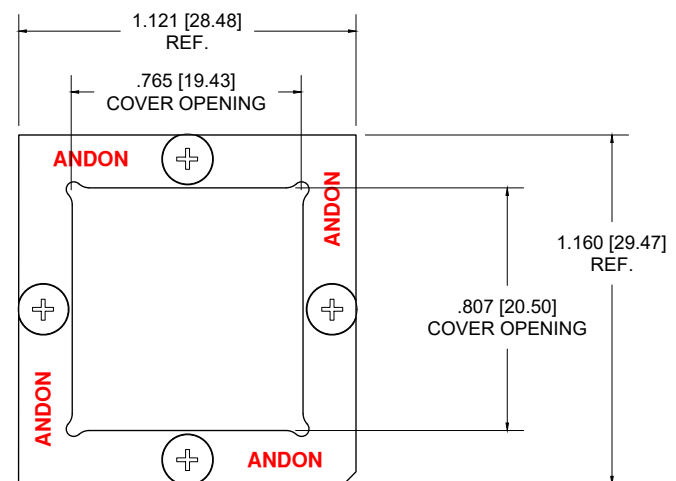
**Fig. 43 326 Pins**

Thru-Hole: 683-326A-TH-491-R27-L14-X  
 Surface Mount: 683-326A-SM-500-R27-L14-X  
 Rollerball®: 683-326A-SM-RB593-R27-L14-X



**Fig. 44 244 Pins**

Thru-Hole: 694-224B-TH-491-R27-L14-X  
 Surface Mount: 694-224B-SM-500-R27-L14-X  
 Rollerball®: 694-224B-SM-RB593-R27-L14-X



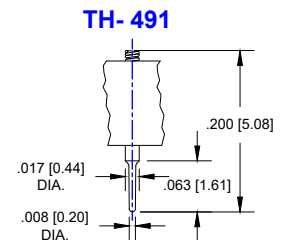
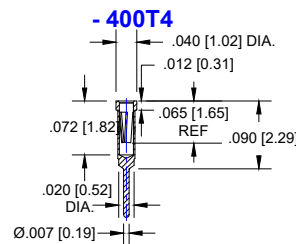
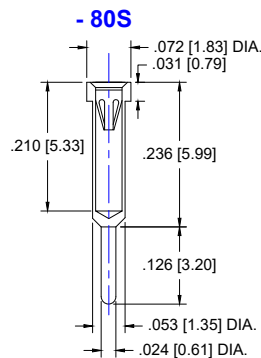
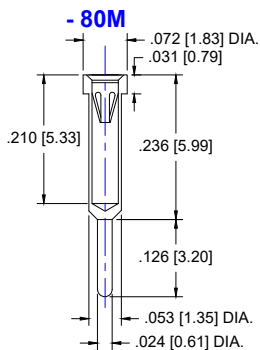
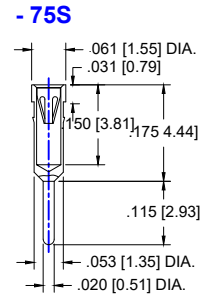
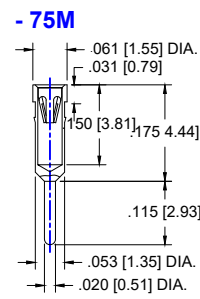
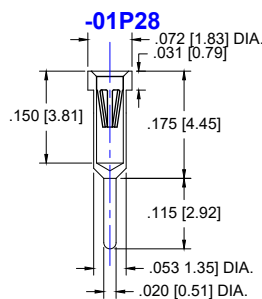
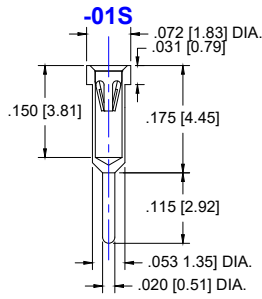
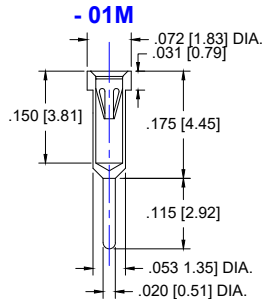


## TELEDYNE e2V *Continued*

### Socket Terminal Details

Cross Section View Shown Units: in[mm]

### THRU HOLE OPTION

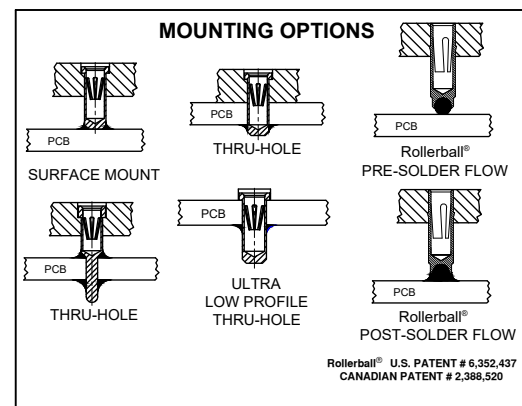


#### Material:

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

#### Plating: RoHS COMPLIANT

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



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\*Sockets are not drawn to scale TELEDYNE e2v 6/06/2024

**RoHS Compliant**  
**Andon Proprietary Information**

**ANDON ELECTRONICS CORPORATION**  
4 Court Drive, Lincoln RI 02865, United States of America

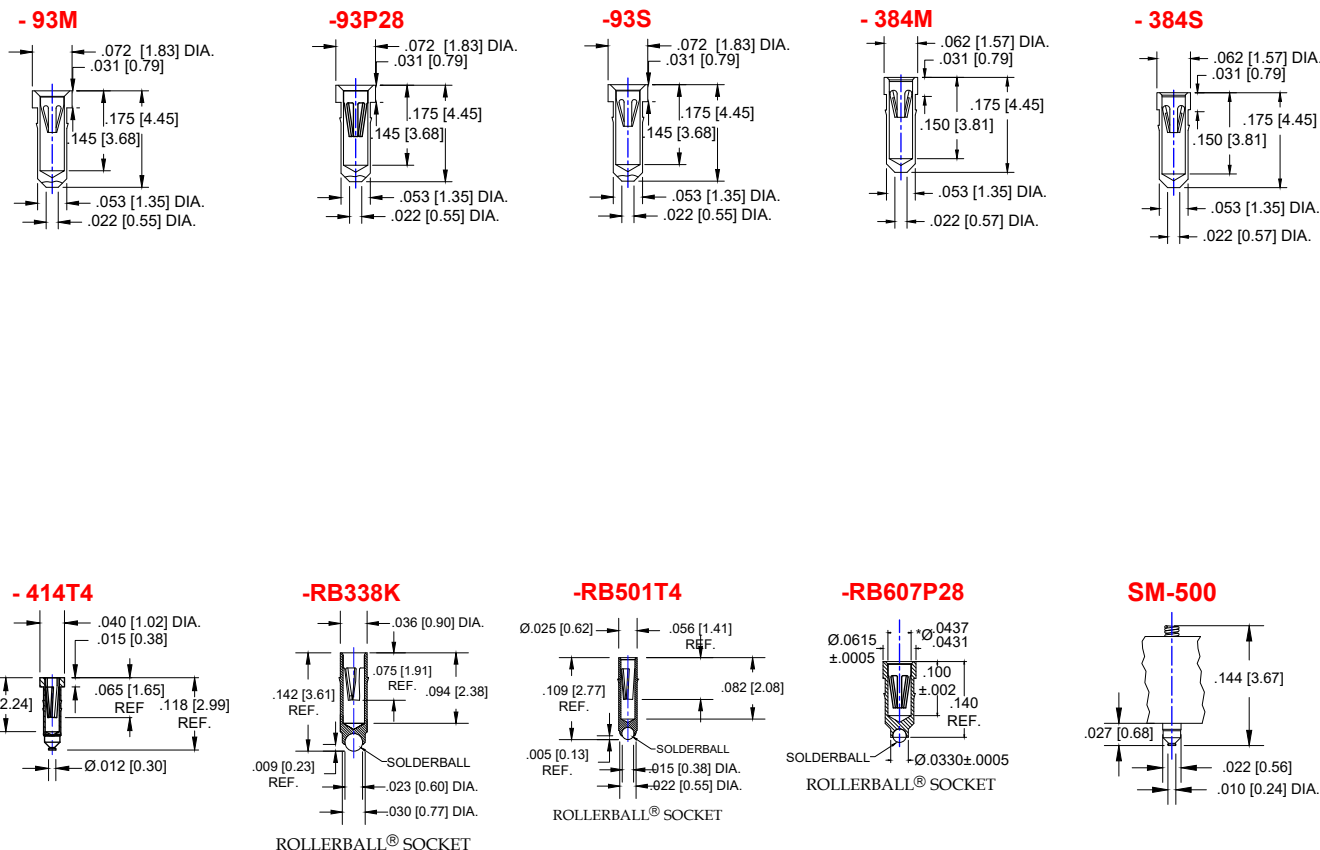
[www.andonelectronics.com](http://www.andonelectronics.com) or [www.andonelect.com](http://www.andonelect.com)  
Phone: 401-333-0388 Fax: 401-333-0287  
Email: [Info@andonelect.com](mailto:Info@andonelect.com)

## TELEDYNE e2V *Continued*

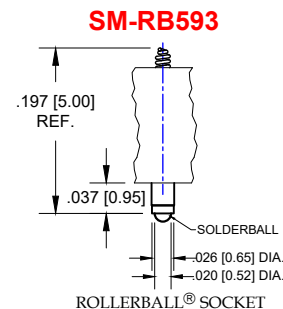
### Socket Terminal Details

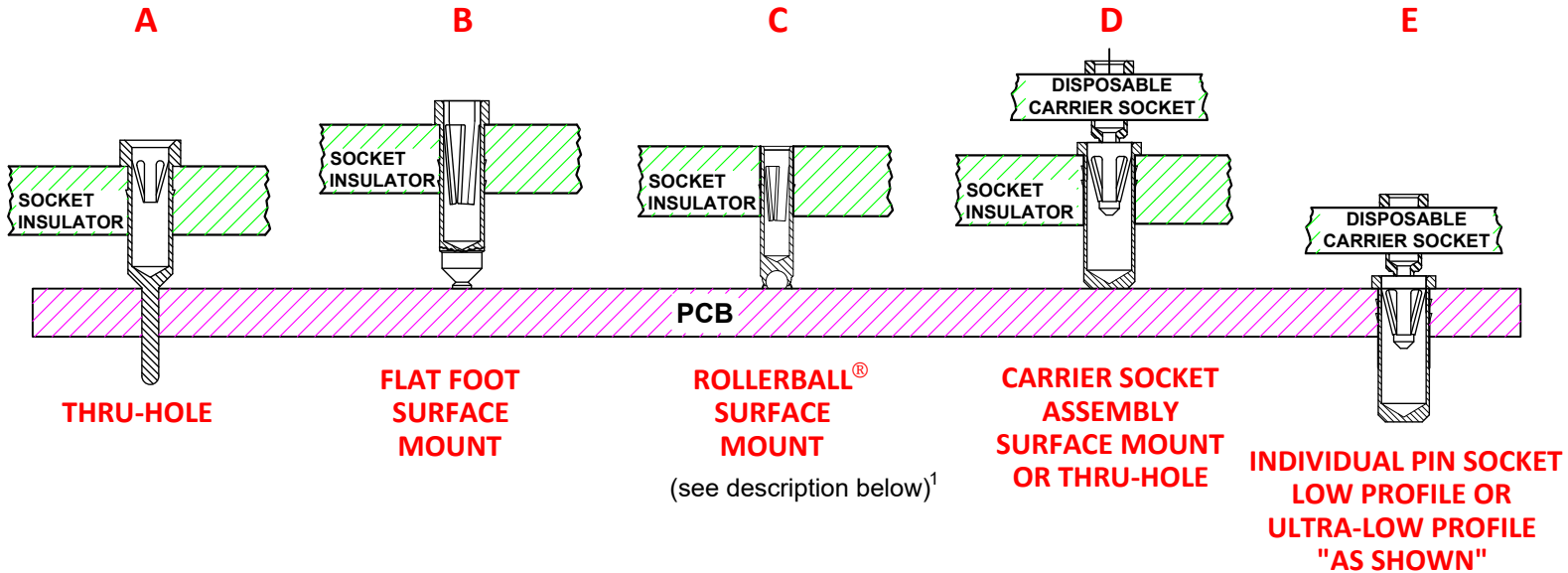
Cross Section View Shown Units: in[mm]

## SURFACE MOUNT OPTION



Terminal Acceptance and Forces							
Thru Hole Terminals				Surface Mount Terminals			
Thru Hole Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force	Surface Mount Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force
-01S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min	-93S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-75S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min	-384S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-80S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min	-93S	Ø.018 [Ø0.46]	9.00 oz Max	2.00 oz Min
-01M	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
-80M	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
-01P28	Ø.028 [Ø0.46]	0.70 oz Max	0.35 oz Min	-93P28	Ø.018 [Ø0.46]	0.70 oz Max	0.35 oz Min
-400T4	Ø.012 [Ø0.30]	1.05 oz Max	0.32 oz Min	-414T4	Ø.012 [Ø0.30]	1.05 oz Max	0.32 oz Min
-75M	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min	-384M	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
				-RB501T4	Ø.012 [Ø0.30]	1.05 oz Max	0.32 oz Min
				-RB338K	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
				-RB607P28	Ø.028 [Ø0.71]	0.70 oz Max	0.35 oz Min

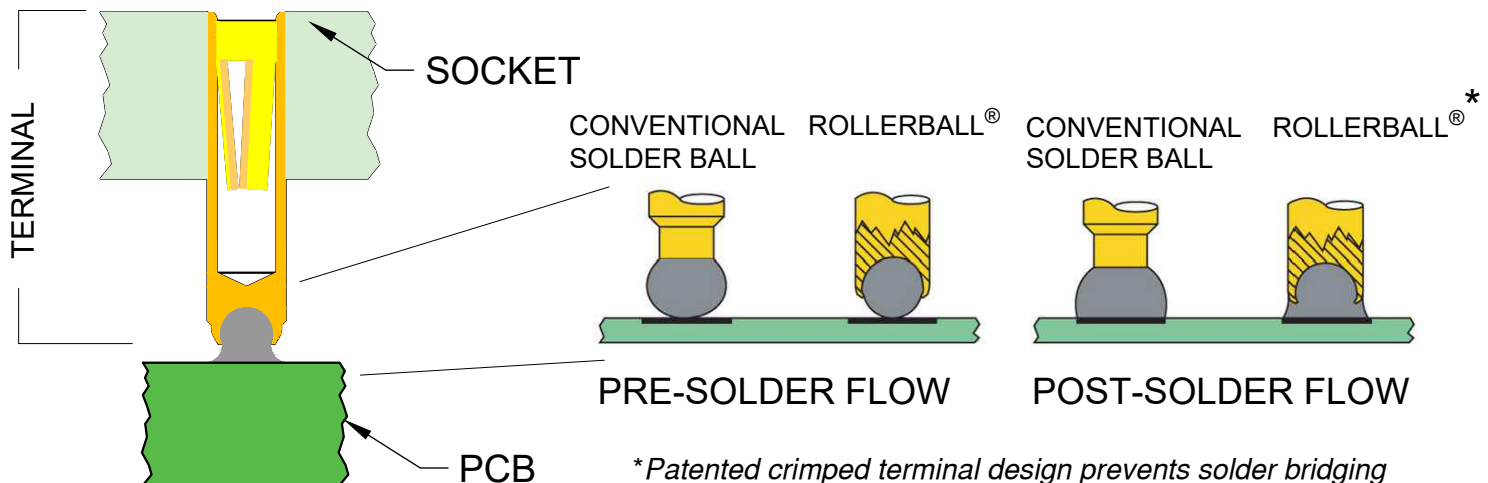




Andon's patented Rollerball® socket terminal option provides more accurate soldering, a stronger connection, and improved electrical connectivity - especially under shock and vibration - than other solder ball terminal designs. Better yet, it can enable you to avoid expensive rework and scrap - especially 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.



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

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



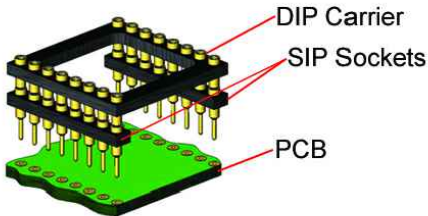
**Phase 2:**  
Place carrier assemblies onto PCB; run through your soldering process.



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

## DIP

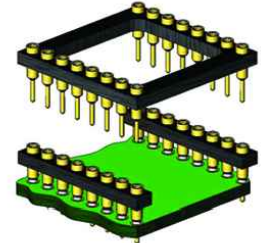
### Before Soldering



### During Soldering

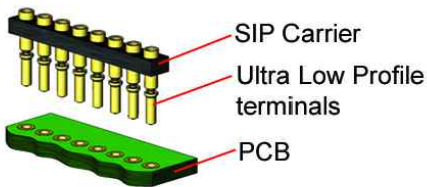


### After Soldering

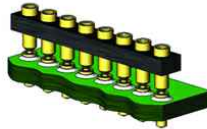


## ULTRA-LOW PROFILE SIP

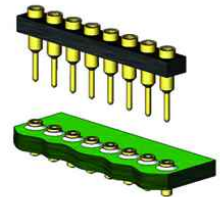
### Before Soldering



### During Soldering

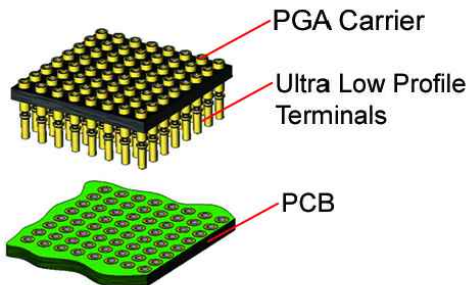


### After Soldering



## ULTRA-LOW PROFILE PGA

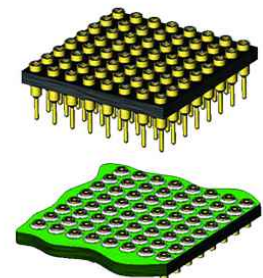
### Before Soldering



### During Soldering

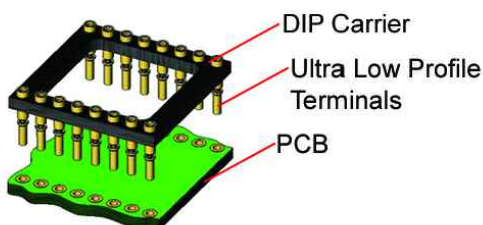


### After Soldering

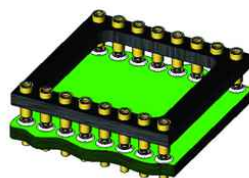


## ULTRA LOW PROFILE DIP

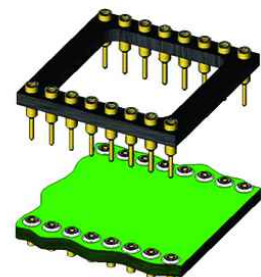
### Before Soldering



### During Soldering



### After Soldering



\*Sockets are not drawn to scale TELEDYNE e2v 6/06/2024