



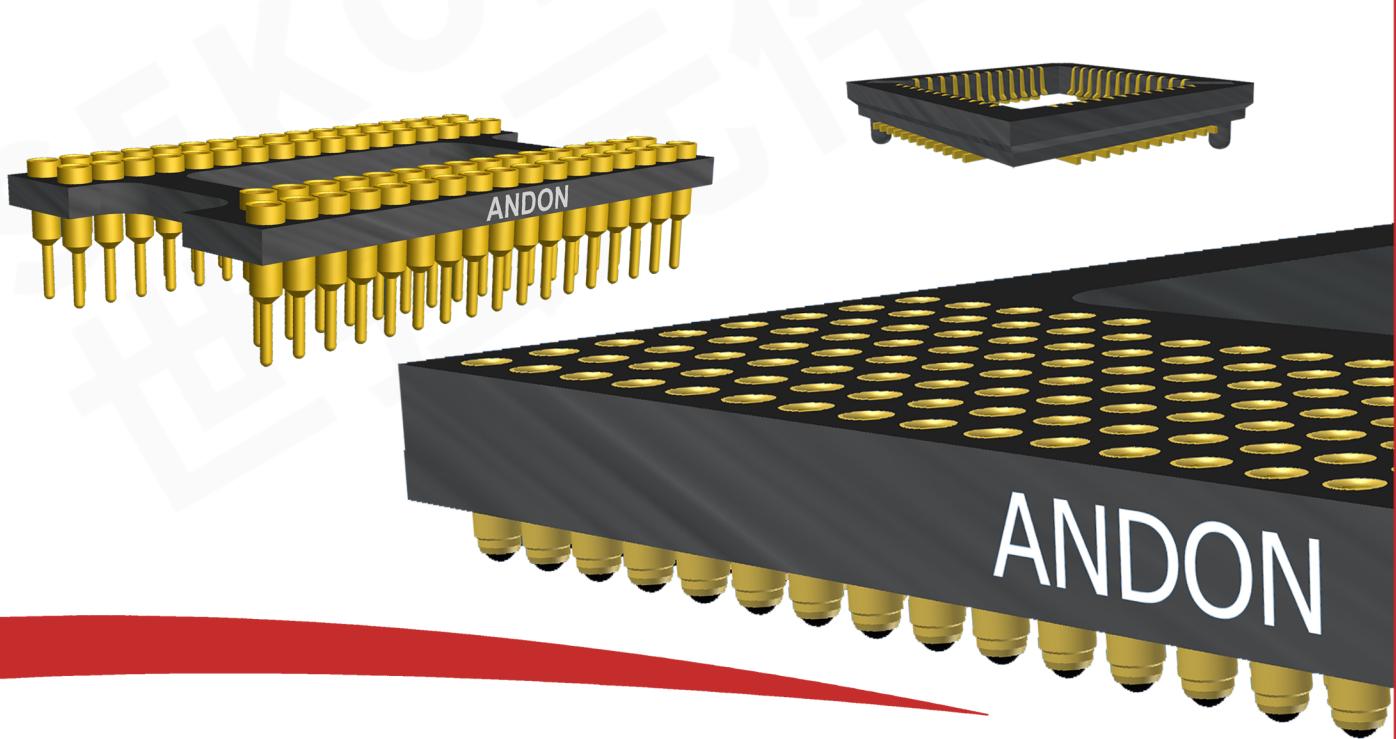
RoHS Compliant



## HIGH RELIABILITY IMAGE SENSOR SOCKETS FOR ON SEMICONDUCTOR



ON Semiconductor®



***Featuring Andon's Unique Senstac™ Contact***

## ON SEMICONDUCTOR

Part Number	Product Name	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type		Pin Ø [in]	Figure Number	Page Number
			Thru-Hole	Surface Mount			
-	AR0130CS	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	AR0134CS	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	AR0134CS	12-08-03-063-XXX-R27-L14	347T	319T	-	1	3
-	AR0135AT/CS	12-08-03-063-XXX-R27-L14	347T	319T	-	1	3
-	AR0141CS	12-08-03-063-XXX-R27-L14	347T	319T	.010	1	3
-	AR0221	12-11-05-087-XXX-R27-L14	347T	319T	.010		
-	AR0230	12-09-03-080-XXX-R27-L14	437T	329T	.010	32	11
-	AR0330	690-48-SM-G10-L14-X	-	-	-	10	5
-	AR0331	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	AR0431	684-052-XX-XXX-R27-L14-X	TH-491	SM-500	-	40	13
-	AR0522	684-052-XX-XXX-R27-L14-X	TH-491	SM-500	-	40	13
-	AR0835HS	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	AR1820HS	12-09-04-060-XXX-R27-L14	347T	319T	.010	39	12
NOI1H2SM1000A	HAS2	710-84-SM-T1	-	-	-	2	3
NOI14SM014KA	IBIS4 14000	IS231-1149D-XXX-R27-L14	01M	93M	.018	6	4
NOI14SM6600A	IBIS4-6600	620-68-SM-G10-S14-X	-	-	-	18	7
NOI14SM6600ABJLCC	IBIS4-6600	710-84-SM-T1	-	-	-	2	3
-	KAC-06040	10-29-18A-267-XXX-R27-L14	400T4	414T4	.012	15	6
-	KAC-12040	10-29-18A-267-XXX-R27-L14	400T4	414T4	.012	15	6
-	KAE-02150	10-22-13-135-XXX-R27-L14	400T4	414T4	.012	30	11
-	KAE-02150	10-22-13A-135-XXX-R27-L14	400T4	414T4	.012	30	11
-	KAE-02150-TEC	10-22-11-143-XXX-R27-L14	400T4	414T4	.012	43	14
-	KAE-02152	10-22-13A-135-XXX-R27-L14	400T4	414T4	.012	30	11
-	KAE-02152-TEC	10-22-11-143-XXX-R27-L14	400T4	414T4	.012	43	14
-	KAE-04471	10-31-19-155-XXX-R27-L14	284UM	281UM	.018	42	14
-	KAE-08151	10-31-19-155-XXX-R27-L14	284UM	281UM	.018	42	14
-	KAE-08152	10-31-19-155-XXX-R27-L14	284UM	281UM	.018	42	14
-	KAF-0261	IS229-824-XXX-R27-L14	01S	93S	.018	11	6
-	KAF-0402	IS229-824-XXX-R27-L14	01S	93S	.018	11	6
-	KAF-09000	IS229-2034-XXX-R27-L14	80S	93S	.018	25	10
-	KAF-09001	IS230-2060-XXX-R27-L14	75M	265M	.018	44	14
-	KAF-1001	IS229-1426-XXX-R27-L14	01S	93S	.018	25	10
-	KAF-1603	IS229-824-XXX-R27-L14	01S	93S	.018	11	6
-	KAF-16200	IS230-14132-XXX-R27-L14	75S	384S	.018	28	11
-	KAF-16801	IS229-2034-XXX-R27-L14	80S	93S	.018	25	10
-	KAF-16803	IS229-2034-XXX-R27-L14	80S	93S	.018	25	10
-	KAF-3200	IS229-824-XXX-R27-L14	01S	93S	.018	11	6
-	KAF-40000	IS229-1752D-XXX-R27-L14	01M	93M	.018	23	9
-	KAF-4320	575-28-02A-084-XXX-R27-L14	01M	93M	.018	38	12
-	KAF-50100	IS229-1752D-XXX-R27-L14	01M	93M	.018	23	9
-	KAF-6303	IS229-8826-XXX-R27-L14	01S	93S	.018	25	10
-	KAF-8300	IS230-832-XXX-R27-L14	75S	384S	.018	19	8
-	KAI-01050 (LCC)	680-64-SM-G10-R14-X	-	-	-	17	7
-	KAI-01050 (PGA)	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-01150	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-02050 (LCC)	680-64-SM-G10-R14-X	-	-	-	17	7
-	KAI-02050 (PGA)	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-02150	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-02170	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-0330	IS230-420-XXX-R27-L14	75S	384S	.018	19	8
-	KAI-0340	IS232-522-XXX-R27-L14	274U	281U	.018	24	9
-	KAI-0373	IS229-824-XXX-R27-L14	01S	93S	.018	11	6
-	KAI-04022	IS230-1034-XXX-R27-L14	75S	384S	.018	12	6
-	KAI-04050	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-04070	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-08050	IS230-9767D-XXX-R27-L14-A	75M	265M	.018	22	9
-	KAI-08051	IS230-9767D-XXX-R27-L14-A	75M	265M	.018	22	9
-	KAI-08052	IS230-9767D-XXX-R27-L14-A	75M	265M	.018	22	9
-	KAI-08670	IS230-6367D-XXX-R27-L14-A	75M	265M	.018	13	6
-	KAI-1003	IS229-1028-XXX-R27-L14	01S	93S	.018	31	11
-	KAI-1010	IS229-824-XXX-R27-L14	01S	93S	.018	11	6
-	KAI-1020 (LCC)	680-64-SM-G10-R14-X	-	-	-	17	7
-	KAI-1020 (PGA)	575-11-42-068-XXX-R27-L14	01M	93M	.018	21	8
-	KAI-11002	IS230-1340-XXX-R27-L14	75M	384M	.018	19	8
-	KAI-16000	IS230-1340-XXX-R27-L14	75M	384M	.018	19	8
-	KAI-16050	IS230-1371D-XXX-R27-L14-A	75M	265M	.018	37	11

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

See last page for other mounting types including low profile options.

Heat sink socket available to reduce heat and noise. Contact Andon for details.

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**RoHS Compliant**

**Andon Proprietary Information**

\*Sockets are not drawn to scale ON Semiconductor 06/04/2018

ON SEMICONDUCTOR							
Part Number	Product Name	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type		Pin Ø [in]	Figure Number	Page Number
			Thru-Hole	Surface Mount			
-	KAI-16070	IS230-1371D-XXX-R27-L14-A	75M	265M	.018	37	12
-	KAI-2001	IS230-832-XXX-R27-L14	75S	384S	.018	19	8
-	KAI-2020	IS230-832-XXX-R27-L14	75S	384S	.018	19	8
-	KAI-2093	IS230-832-XXX-R27-L14-A	75S	384S	.018	19	8
-	KAI-29050	IS230-1371D-XXX-R27-L14-A	75M	265M	.018	37	12
-	KAI-29052	IS230-1371D-XXX-R27-L14-A	75M	265M	.018	37	12
-	KAI-4021M	IS230-1034-XXX-R27-L14	75S	384S	.018	12	6
-	KAI-43140	IS230-1371D-XXX-R27-L14-A	75M	265M	.018	37	12
-	KAI-47051	IS232-1554201D-XXX-R27-L14-A	400T4	414T4	.012	36	12
-	KLI-2104	IS229-632-XXX-R27-L14	01M	93M	.018	29	11
-	KLI-2113	IS229-6128-XXX-R27-L14	01S	93S	.018	25	10
-	KLI-4104	IS233-4146-XXX-R27-L14	75M	384M	.018	26	11
NOIL1SN3000A	LUPA 3000	10-21-06-369-XXX-R27-L14	400T4	414T4	.012	4	3
NOIL2SM1300A	LUPA-1300-2	10-24-05-168-XXX-R27-L14	400T4	414T4	.012	5	3
NOIL2SM1300A	LUPA-1300-2	10-24-05A-168-XXX-R27-L14	400T4	414T4	.012	5	3
NOIL1SM0300A	LUPA-300	680-48-SM-G10-R14-X	-	-	-	17	7
NOIL1SM4000A	LUPA-4000	575-16-24-127-XXX-R27-L14	01M	93M	.018	3	3
NOIM1SM9600A / NOIM2SM9600A	MAN09600	620-52-SM-G10-L14-X	-	-	-	18	7
-	MP9P001	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9D131	680-48-SM-G10-R14-X	-	-	-	17	7
-	MT9F002	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9J001 / MT9J003	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9M001	680-48-SM-G10-R14-X	-	-	-	17	7
-	MT9M021	12-08-03-063-XXX-P27-L14	347T	319T	.010	1	3
-	MT9M024	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9M031	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9M034	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9P006	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9P031	685-48-XX-XXX-R27-L14-X	TH-491	SM-500	-	20	8
-	MT9T001	691-48-XX-XXX-R27-L14-1	TH-491	SM-500	-	41	13
-	MT9V022	12-08-02-052-XXX-R27-L14	347T	319T	.010	14	6
-	MT9V023	12-08-02-052-XXX-R27-L14	347T	319T	.010	14	6
-	MT9V024	12-08-02-052-XXX-R27-L14	347T	319T	.010	14	6
-	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
-	MT9V111	18-07-04-044-XXX-R27-L14	437T	329T	.010	27	11
-	MT9V125	12-08-02-052-XXX-R27-L14	347T	319T	.010	14	6
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-XXX-XXX-R27-L14-1	TH-491	SM-500	-	45	15
NOIP1SN010KA	PYTHON 10K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIP1SN012KA	PYTHON 12K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIP1SN016KA	PYTHON 16K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIP1SN025KA	PYTHON 25K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIP1SN030KA	PYTHON 300	680-48-SM-G10-R14-X	-	-	-	17	7
NOIP1SN0500A	PYTHON 500	680-48-SM-G10-R14-X	-	-	-	17	7
NOIP1SN1300A	PYTHON1300	680-48-SM-G10-R14-X	-	-	-	17	7
NOIS1SM0250A	STAR 250	710-84-SM-T1	-	-	-	2	3
NOIS1SM1000A	STAR1000	710-84-SM-T1	-	-	-	2	3
NOIV1SN012KA	VITA 12K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIV1SN1300A / NOIV2SN1300A	VITA 1300	680-48-SM-G10-R14-X	-	-	-	17	7
NOIV1SN016KA	VITA 16K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIV1SN2000A / NOIV2SN2000A	VITA 2000	620-52-SM-G10-L14-X	-	-	-	18	7
NOIV1SN025KA	VITA 25K	10-31-13-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIV1SN025KA	VITA 25K	10-31-13A-355-XXX-R27-L14	400T4	414T4	.012	7	4
NOIV1SN5000A	VITA 5000	620-68-SM-G10-S14-X	-	-	-	18	7

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

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

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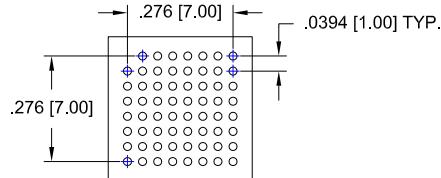
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**Andon Proprietary Information**

\*Sockets are not drawn to scale ON Semiconductor 06/04/2018

## ON Semiconductor *Continued* Image Sensor Socket Footprints

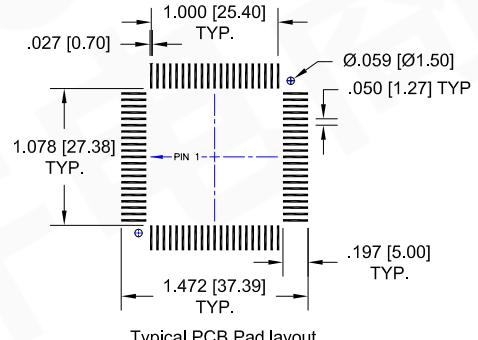
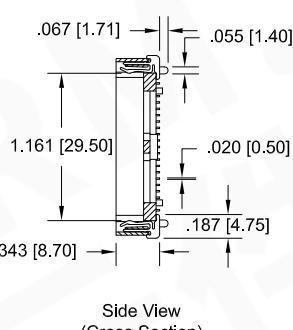
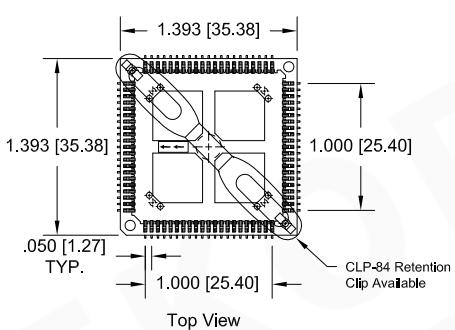
*Units: in [mm]*


**Fig. 1**

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

### .050 [1.27] Pitch PLCC Socket

*Units: in [mm]*


**Fig. 2**

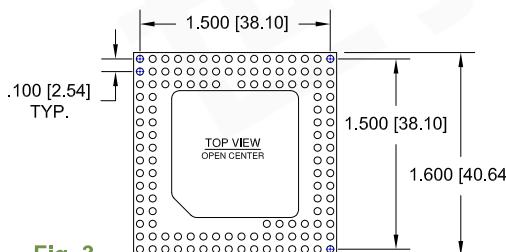
84 Pins

Surface Mount: 710-84-SM-T1

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

## Image Sensor Socket Footprints

*Units: in [mm]*

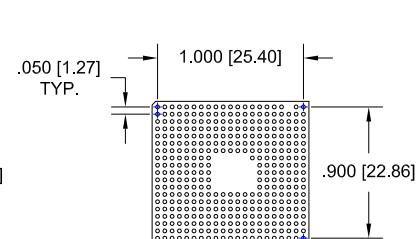

**Fig. 3**

127 Pins

Thru-Hole: 575-16-24-127-**01M**-R27-L14

Surface Mount: 575-16-24-127-**93M**-R27-L14

Rollerball®: 575-16-24-127-**RB338K**-R27-L14


**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: 10-24-05A-168-**400T4**-R27-L14 (With Window)

Surface Mount: 10-24-05A-168-**414T4**-R27-L14 (With Window)

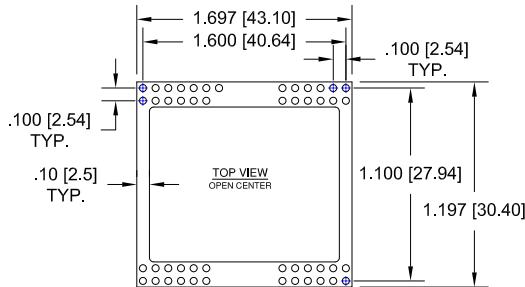
Rollerball®: 10-24-05A-168-**RB501T4**-R27-L14 (With Window)

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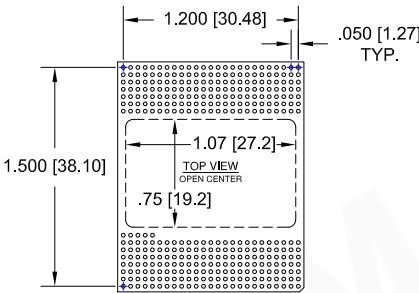
## ON Semiconductor *Continued* Image Sensor Socket Footprints

*Units: in [mm]*



**Fig. 6**

49 Pins  
 Thru-Hole: IS231-1149D-01M-R27-L14  
 Surface Mount: IS231-1149D-93M-R27-L14  
 Rollerball®: IS231-1149D-RB338K-R27-L14



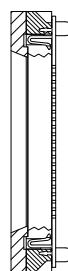
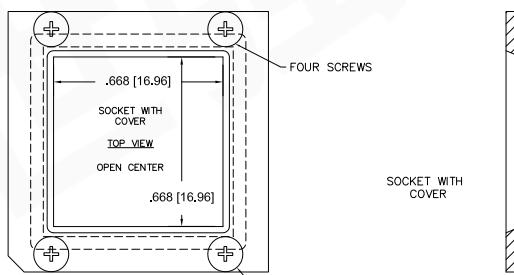
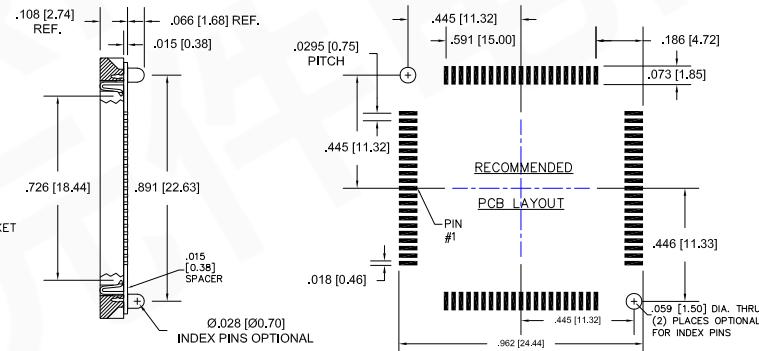
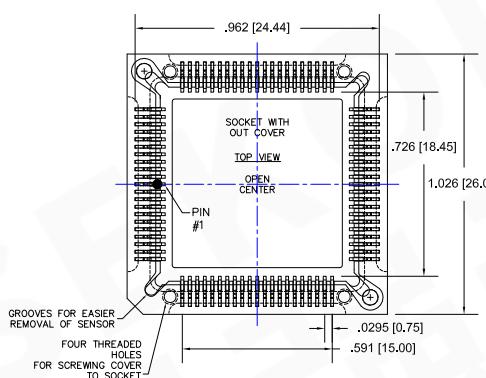
**Fig. 7**

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

355 Pins

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)



**Fig. 8**

84 Pins  
 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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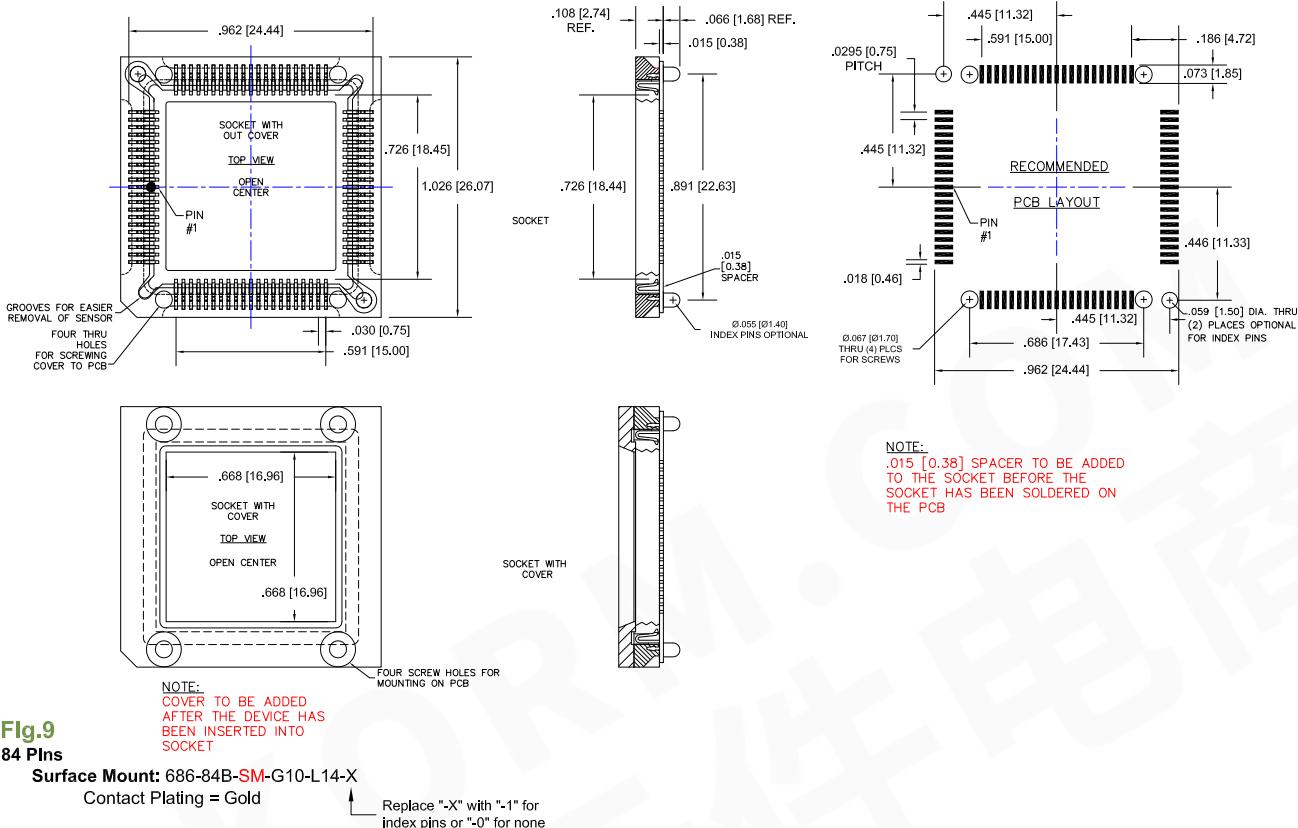
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**Andon Proprietary Information**

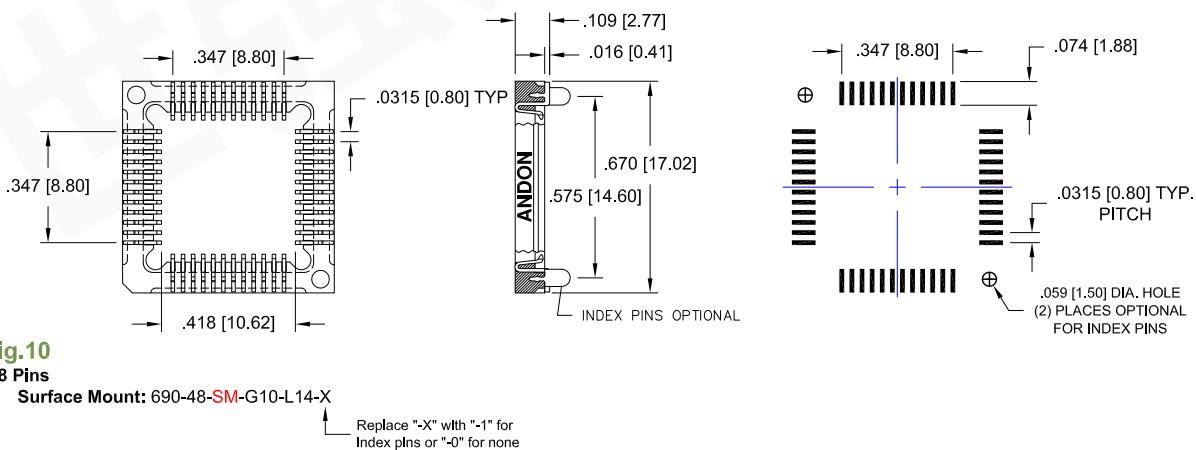
\*Sockets are not drawn to scale ON Semiconductor 06/04/2018

## ON Semiconductor *Continued* Image Sensor Socket Footprints

Units: in [mm]



### .0315 [0.80] Pitch 48 Pin LCC Socket

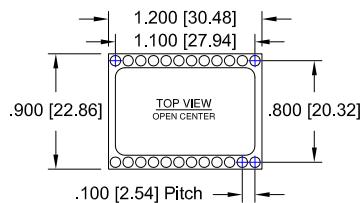


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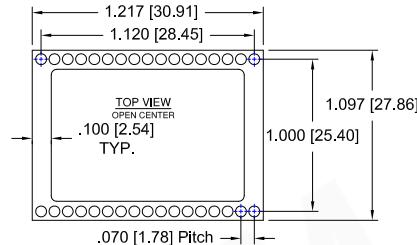
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**Andon Proprietary Information**

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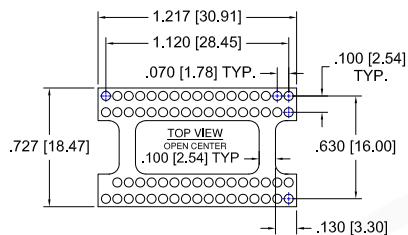
**ON Semiconductor *Continued*  
Image Sensor Socket Footprints**  
*Units: in [mm]*


**Fig.11**

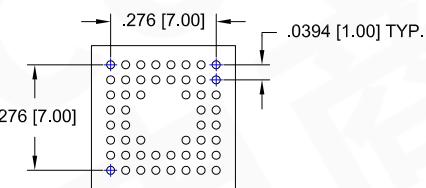
**Thru-Hole:** IS229-824-01S-R27-L14  
**Surface Mount:** IS229-824-93S-R27-L14


**Fig.12**

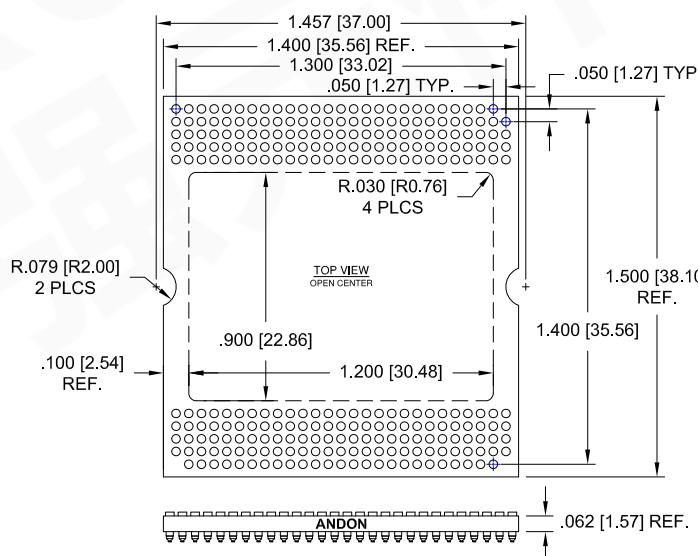
**Thru-Hole:** IS230-1034-75S-R27-L14  
**Surface Mount:** IS230-1034-384S-R27-L14


**Fig.13**

**Thru-Hole:** IS230-6367D-75M-R27-L14-A  
**Surface Mount:** IS230-6367D-265M-R27-L14-A


**Fig.14**

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

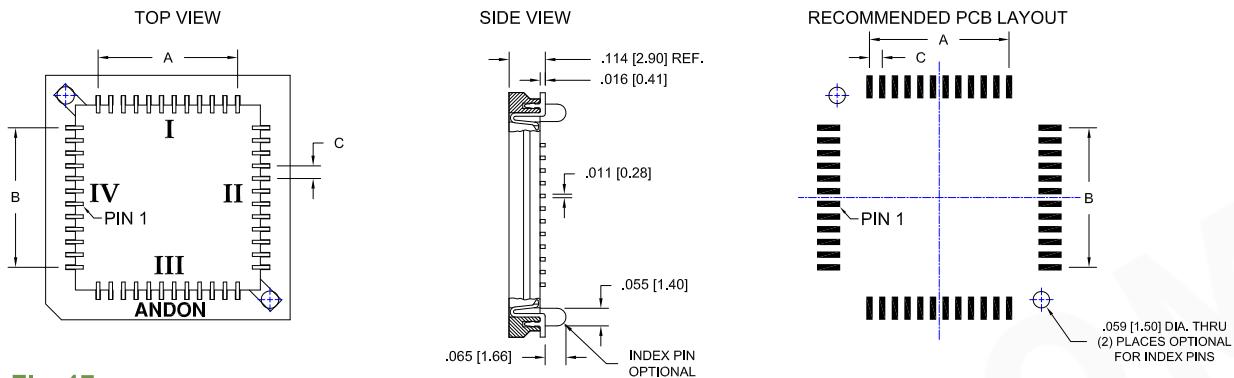

**Fig. 15**

**Thru-Hole:** 10-29-18A-267-400T4-R27-L14  
**Surface Mount:** 10-29-18A-267-414T4-R27-L14  
**Rollerball:** 10-29-18A-267-RB501T4-R27-L14

### ON Semiconductor *Continued* Image Sensor Socket Footprints

Units: in [mm]

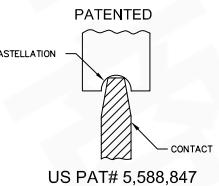
#### .040 [1.02] Pitch LCC Socket


**Fig. 17**

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

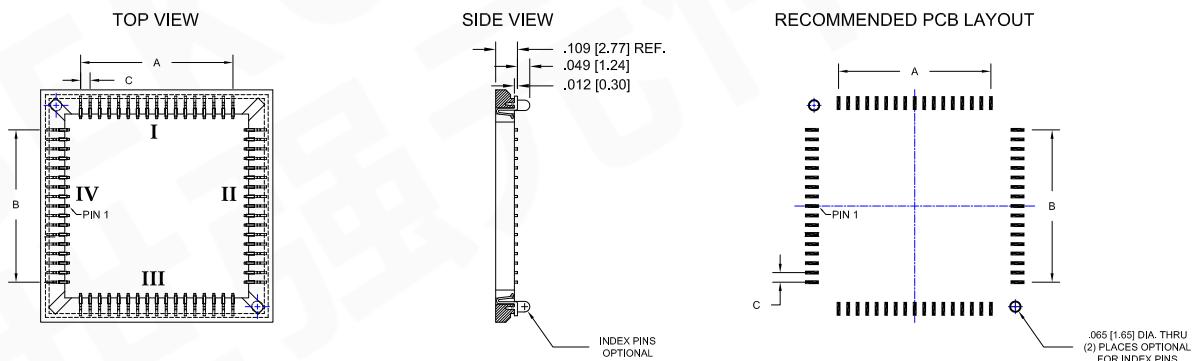


**NON MAGNETIC PLATING AVAILABLE - G55**

**For Other Pin Configuration or Layouts, Contact Factory.**

#### .050 [1.27] Pitch LCC Sockets

**EXTRACTION TOOL  
AVAILABLE**

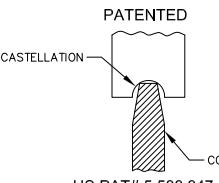

**Fig. 18**

**For Other Pin Configuration 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**



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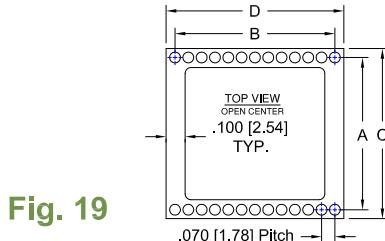
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**Andon Proprietary Information**

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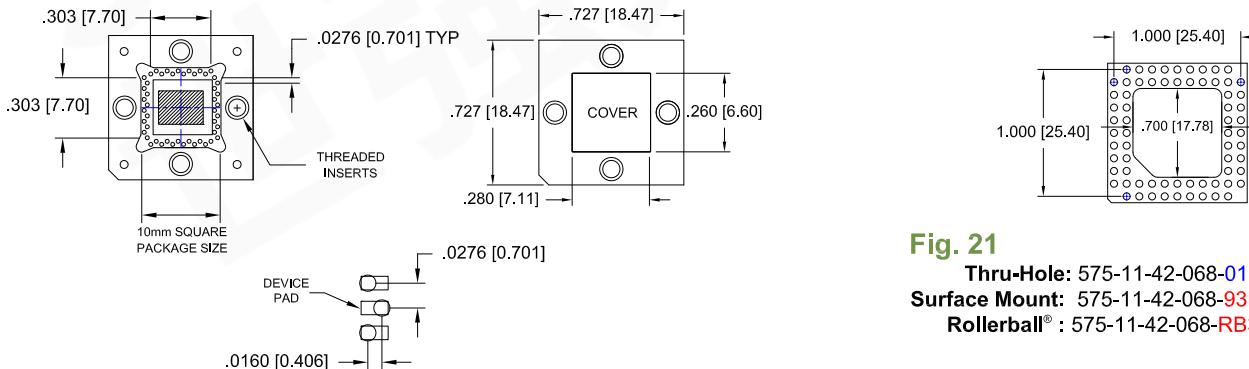
## ON Semiconductor *Continued* Image Sensor Socket Footprints

*Units: in [mm]*


**Fig. 19**

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS230-416-75S-R27-L14	384S	19	16	.400 (10.16)	.490 (12.45)	.497 (12.62)	.587 (14.91)
IS230-420-75S-R27-L14	384S	19	20	.400 (10.16)	.630 (16.00)	.497 (12.62)	.727 (18.47)
IS230-4512-75S-R27-L14	384S	19	12	.450 (11.43)	.350 (8.89)	.547 (13.89)	.447 (11.35)
IS230-532-75S-R27-L14	384S	19	32	.500 (12.70)	1.050 (26.67)	.597 (15.16)	1.147 (29.13)
IS230-620-75S-R27-L14	384S	19	20	.600 (15.24)	.630 (16.00)	.697 (17.70)	.727 (18.47)
IS230-632-75S-R27-L14	384S	19	32	.600 (15.24)	1.050 (26.67)	.697 (17.70)	1.147 (29.13)
IS230-828-75S-R27-L14	384S	19	28	.800 (20.32)	.910 (23.11)	.897 (22.78)	1.007 (25.58)
IS230-832-75S-R27-L14	384S	19	32	.800 (20.32)	1.050 (26.67)	.897 (22.78)	1.147 (29.13)
IS230-930-75S-R27-L14	384S	19	30	.900 (22.86)	.980 (24.89)	.997 (25.32)	1.077 (27.36)
IS230-934-75S-R27-L14	384S	19	34	.900 (22.86)	1.120 (28.45)	.997 (25.32)	1.217 (30.91)
IS230-1034-75S-R27-L14	384S	19	34	1.000 (25.40)	1.120 (28.45)	1.097 (27.86)	1.217 (30.91)
IS230-1232-75S-R27-L14	384S	19	32	1.200 (30.48)	1.050 (26.67)	1.297 (32.94)	1.147 (29.13)
IS230-1232-400T4-R27-L14	414T4	19	32	1.200 (30.48)	1.050 (26.67)	1.297 (32.94)	1.147 (29.13)
IS230-1340-75S-R27-L14	384S	19	40	1.300 (33.02)	1.330 (33.78)	1.397 (35.48)	1.427 (36.25)
IS230-18860-75S-R27-L14	384S	19	60	1.880 (47.75)	2.030 (51.56)	1.977 (50.22)	2.127 (54.03)
IS230-2064-75S-R27-L14	384S	19	64	2.000 (50.80)	2.170 (55.12)	2.097 (53.26)	2.267 (57.58)
IS230-2640-75S-R27-L14	384S	19	40	2.600 (66.04)	1.330 (33.78)	2.697 (68.50)	1.427 (36.25)

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


**Fig. 20**

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

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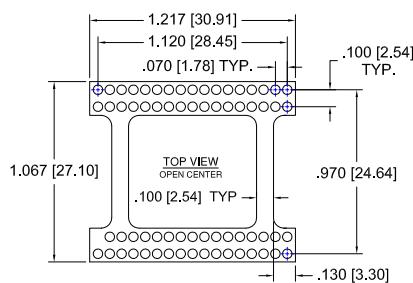
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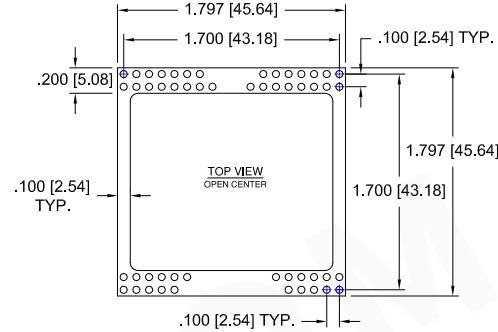
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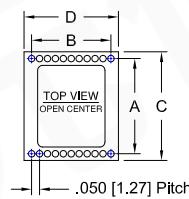
*Units: in [mm]*


**Fig. 22**

Thru-Hole: IS230-9767D-**75M**-R27-L14-A  
Surface Mount: IS230-9767D-**265M**-R27-L14-A


**Fig. 23**

Thru-Hole: IS229-1752D-**01M**-R27-L14  
Surface Mount: IS229-1752D-**93M**-R27-L14


**Fig. 24**

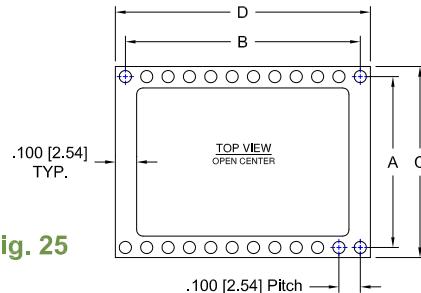
Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS232-316- <b>274U</b> -R27-L14	<b>281U</b>	24	16	.300 (7.62)	.350 (8.89)	.385 (9.78)	.447 (11.35)
IS232-414- <b>274U</b> -R27-L14	<b>281U</b>	24	14	.400 (10.16)	.300 (7.62)	.485 (12.32)	.397 (10.08)
IS232-416-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

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**ON Semiconductor *Continued*  
Image Sensor Socket Footprints**  
*Units: in [mm]*



**Fig. 25**

Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D
IS229-306-01S-R27-L14	93S	25	6	.300 (7.62)	.200 (5.08)	.397 (10.08)	.297 (7.54)
IS229-308-01S-R27-L14	93S	25	8	.300 (7.62)	.300 (7.62)	.397 (10.08)	.397 (10.08)
IS229-316-01S-R27-L14	93S	25	16	.300 (7.62)	.700 (17.78)	.397 (10.08)	.797 (20.24)
IS229-318-01S-R27-L14	93S	25	18	.300 (7.62)	.800 (20.32)	.397 (10.08)	.897 (22.78)
IS229-324-01S-R27-L14	93S	25	24	.300 (7.62)	1.100 (27.94)	.397 (10.08)	1.197 (30.40)
IS229-408-01S-R27-L14	93S	25	8	.400 (10.16)	.300 (7.62)	.497 (12.62)	.397 (10.08)
IS229-420-01S-R27-L14	93S	25	20	.400 (10.16)	.900 (22.86)	.497 (12.62)	.997 (25.32)
IS229-422-01S-R27-L14	93S	25	22	.400 (10.16)	1.000 (25.40)	.497 (12.62)	1.097 (27.86)
IS229-422-80S-R27-L14	93S	25	22	.400 (10.16)	1.000 (25.40)	.497 (12.62)	1.097 (27.86)
IS229-424-80S-R27-L14	93S	25	24	.400 (10.16)	1.100 (27.94)	.497 (12.62)	1.197 (30.40)
IS229-424-400T4-R27-L14	93S	25	24	.400 (10.16)	1.100 (27.94)	.497 (12.62)	1.197 (30.40)
IS229-432-80S-R27-L14	93S	25	32	.400 (10.16)	1.500 (38.10)	.497 (12.62)	1.597 (40.56)
IS229-620-01S-R27-L14	93S	25	20	.600 (15.24)	.900 (22.86)	.697 (17.70)	.997 (25.32)
IS229-622-01S-R27-L14	93S	25	22	.600 (15.24)	1.000 (25.40)	.697 (17.70)	1.097 (27.86)
IS229-624-01S-R27-L14	93S	25	24	.600 (15.24)	1.100 (27.94)	.697 (17.70)	1.197 (30.40)
IS229-624-80S-R27-L14	93S	25	24	.600 (15.24)	1.100 (27.94)	.697 (17.70)	1.197 (30.40)
IS229-628-80S-R27-L14	93S	25	28	.600 (15.24)	1.300 (33.02)	.697 (17.70)	1.397 (35.48)
IS229-640-01S-R27-L14	93S	25	40	.600 (15.24)	1.900 (48.26)	.697 (17.70)	1.997 (50.72)
IS229-650-01S-R27-L14	93S	25	50	.600 (15.24)	2.400 (60.96)	.697 (17.70)	2.497 (63.42)
IS229-656-01S-R27-L14	93S	25	56	.600 (15.24)	2.700 (68.58)	.697 (17.70)	2.797 (71.04)
IS229-6120-80S-R27-L14	93S	25	20	.610 (15.49)	.900 (22.86)	.707 (17.96)	.997 (25.32)
IS229-6124-01S-R27-L14	93S	25	24	.610 (15.49)	1.100 (27.94)	.707 (17.96)	1.197 (30.40)
IS229-6128-01S-R27-L14	93S	25	28	.610 (15.49)	1.300 (33.02)	.707 (17.96)	1.397 (35.48)
IS229-6140-01S-R27-L14	93S	25	40	.610 (15.49)	1.900 (48.26)	.707 (17.96)	1.997 (50.72)
IS229-820-80S-R27-L14	93S	25	20	.800 (20.32)	.900 (22.86)	.897 (22.78)	.997 (25.32)
IS229-824-01S-R27-L14	93S	25	24	.800 (20.32)	1.100 (27.94)	.897 (22.78)	1.197 (30.40)
IS229-826-01S-R27-L14	93S	25	26	.800 (20.32)	1.200 (30.48)	.897 (22.78)	1.297 (32.94)
IS229-828-88S-R27-L14	93S	25	28	.800 (20.32)	1.300 (33.02)	.897 (22.78)	1.397 (35.48)
IS229-8826-01S-R27-L14	93S	25	26	.880 (22.35)	1.200 (30.48)	.977 (24.82)	1.297 (32.94)
IS229-8826-80S-R27-L14	93S	25	26	.880 (22.35)	1.200 (30.48)	.977 (24.82)	1.297 (32.94)
IS229-924-01S-R27-L14	93S	25	24	.900 (22.86)	1.100 (27.94)	.997 (25.32)	1.197 (30.40)
IS229-932-01S-R27-L14	93S	25	32	.900 (22.86)	1.500 (38.10)	.997 (25.32)	1.597 (40.56)
IS229-938-01S-R27-L14	93S	25	38	.900 (22.86)	1.800 (45.72)	.997 (25.32)	1.897 (48.18)
IS229-940-01S-R27-L14	93S	25	40	.900 (22.86)	1.900 (48.26)	.997 (25.32)	1.997 (50.72)
IS229-9124-80S-R27-L14	93S	25	24	.910 (23.11)	1.100 (27.94)	1.007 (25.58)	1.197 (30.40)
IS229-1226-80S-R27-L14	93S	25	26	1.200 (30.48)	1.200 (30.48)	1.297 (32.94)	1.297 (32.94)
IS229-1330-01M-R27-L14	93M	25	30	1.300 (33.02)	1.400 (35.56)	1.397 (35.48)	1.497 (38.02)
IS229-1426-01S-R27-L14	93S	25	26	1.410 (35.81)	1.200 (30.48)	1.507 (38.28)	1.297 (32.94)
IS229-1824-80S-R27-L14	93S	25	24	1.800 (45.72)	1.100 (27.94)	1.897 (48.18)	1.197 (30.40)
IS229-2024-80S-R27-L14	93S	25	24	2.000 (50.80)	1.100 (27.94)	2.097 (53.26)	1.197 (30.40)
IS229-2034-80S-R27-L14	93S	25	34	2.010 (51.05)	1.600 (40.64)	2.107 (53.52)	1.697 (43.10)
IS229-2044-80S-R27-L14	93S	25	44	2.010 (51.05)	2.100 (53.34)	2.107 (53.52)	2.197 (55.80)
IS229-2239-01S-R27-L14	93S	25	39	2.200 (55.88)	1.850 (46.99)	2.297 (58.34)	1.947 (49.45)
IS229-2640-01S-R27-L14	93S	25	40	2.600 (66.04)	1.900 (48.26)	2.697 (68.50)	1.997 (50.72)
9-IS229-2640-01S-R27-L14-SIP	93S	25	40	2.600 (66.04)	1.900 (48.26)	2.697 (68.50)	1.997 (50.72)

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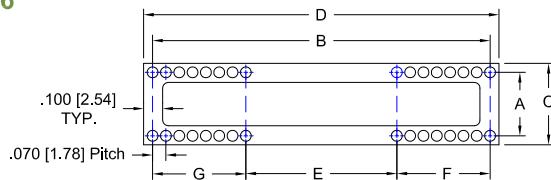
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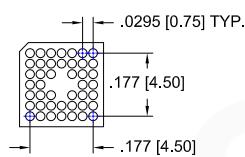
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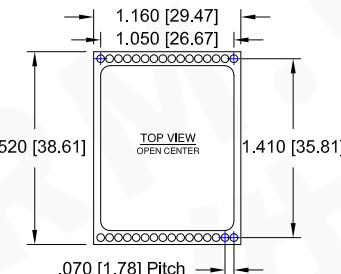
*Units: in [mm]*

**Fig. 26**


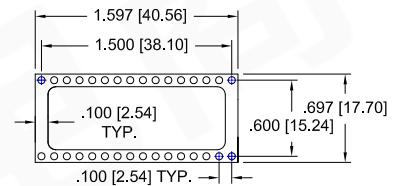
Andon Part Number w/Thru-Hole Terminal	Surface Mount Terminal	Figure Number	Pin QTY.	A	B	C	D	E	F	G
IS233-4146-75S-R27-L14	384S	26	46	.410 (10.41)	2.200 (55.88)	.507 (12.88)	2.297 (58.34)	.730 (18.54)	.770 (19.56)	.700 (17.78)
IS233-424-75S-R27-L14	384S	26	24	.400 (10.16)	.910 (23.11)	.497 (12.62)	1.007 (25.58)	.210 (5.33)	.350 (8.89)	.350 (8.89)
IS233-532-75S-R27-L14	384S	26	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)

**.0295 [0.75] Pitch UBGAs**

**Fig. 27**

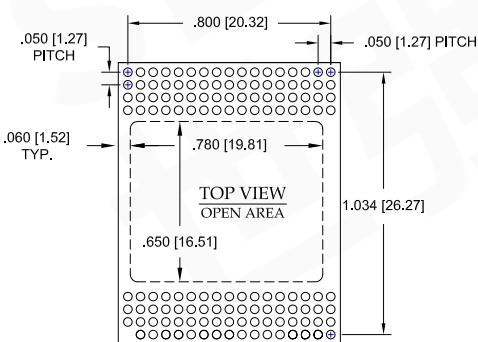
Thru-Hole: 18-07-04-044-437T-R27-L10  
 Surface Mount: 18-07-04-044-329T-R27-L10  
 Adapter: 18-07-04-044-413-G10-L14


**Fig. 28**

Thru-Hole: IS230-14132-75S-R27-L14  
 Surface Mount: IS230-14132-384S-R27-L14


**Fig. 29**

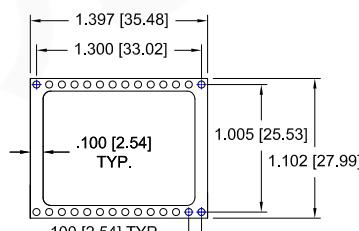
32 Pins  
 Thru-Hole: IS229-632-01M-R27-L14  
 Surface Mount: IS229-632-93M-R27-L14


**Fig. 30**

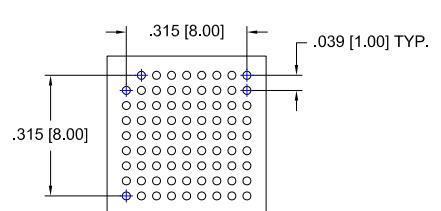
Thru-Hole: 10-22-13-135-400T4-R27-L14  
 Surface Mount: 10-22-13-135-414T4-R27-L14  
 Rollerball®: 10-22-13-135-RB501T4-R27-L14

PART NUMBER WITH OPTIONAL WINDOW

Thru-Hole: 10-22-13A-135-400T4-R27-L14 (With Window)  
 Surface Mount: 10-22-13A-135-414T4-R27-L14(With Window)  
 Rollerball®: 10-22-13A-135-RB501T4-R27-L14(With Window)


**Fig. 31**

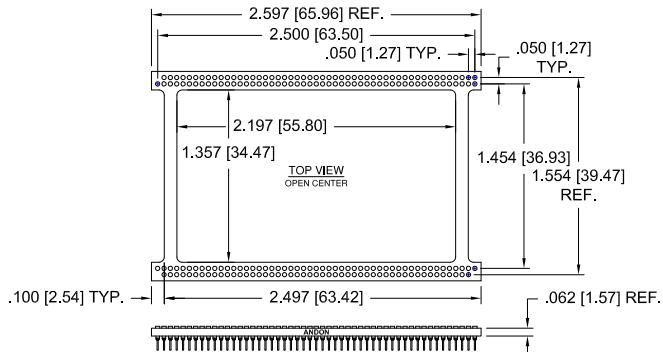
28 Plns  
 Thru-Hole: IS229-1028-01S-R27-L14  
 Surface Mount: IS229-1028-93S-R27-L14


**Fig. 32**

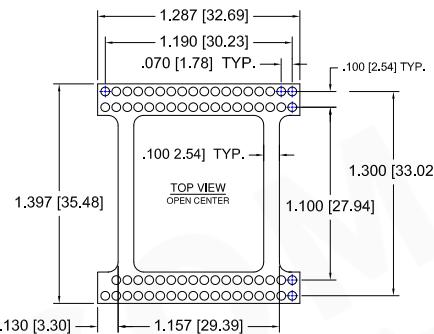
Thru-Hole: 12-09-03-080-437T-R27-L14  
 Surface Mount: 12-09-03-080-329T-R27-L14  
 Adapter: 12-09-03-080-321-G10-L14  
 Rollerball®: 12-09-03-080-RB339T-R27-L14

## ON Semiconductor *Continued* Image Sensor Socket Footprints

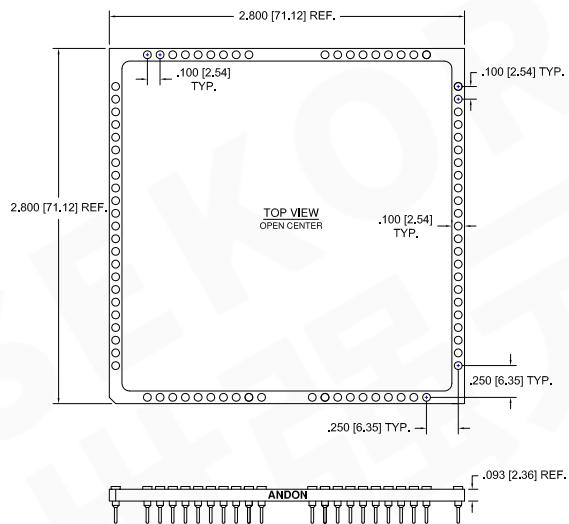
Units: in [mm]


**Fig. 36**

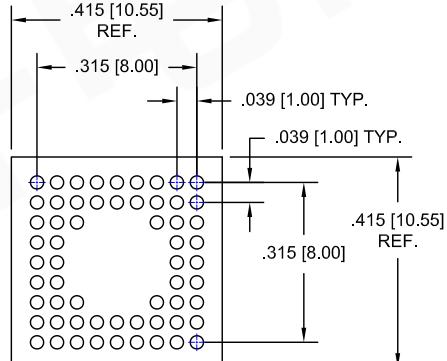
**Thru-Hole:** IS232-1554201D-**400T4**-R27-L14-A  
**Surface Mount:** IS232-1554201D-**414T4**-R27-L14-A  
**Rollerball®:** IS232-1554201D-**RB501T4**-R27-L14-A


**Fig. 37**

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


**Fig. 38**

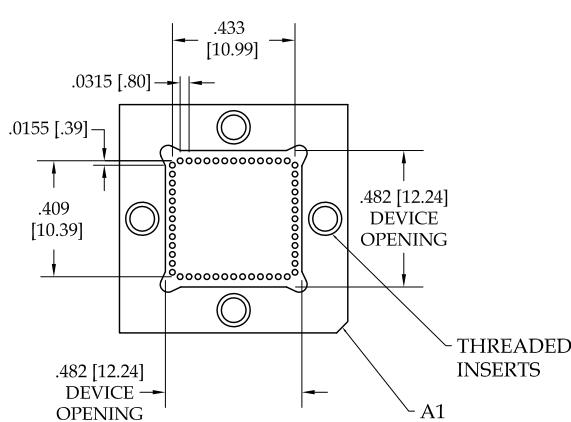
**Thru-Hole:** 575-28-02A-084-**01M**-R27-L14  
**Surface Mount:** 575-28-02A-084-**93M**-R27-L14  
**Rollerball®:** 575-28-02A-084-**RB338K**-R27-L14


**Fig. 39**

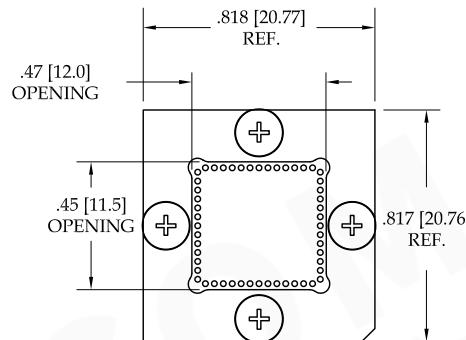
**Thru-Hole:** 12-09-04-060-**347T**-R27-L14  
**Surface Mount:** 12-09-04-060-**319T**-R27-L14  
**Adapter:** 12-09-04-060-321-G10-L14

**ON Semiconductor *Continued***  
**Image Sensor Socket Footprints**  
*Units: in [mm]*

TOP VIEW



GUIDE & BASE SHOWN

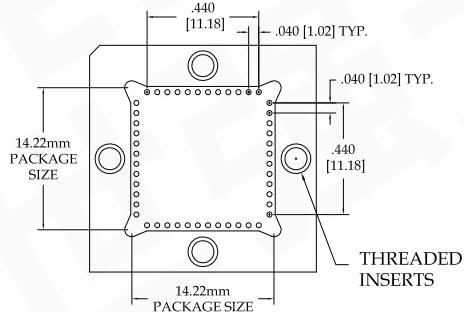


COVER & HARDWARE SHOWN

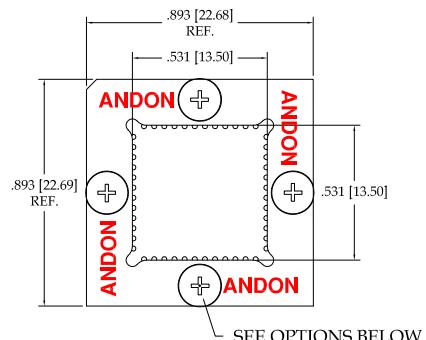
**Fig. 40**

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

TOP VIEW



GUIDE & BASE SHOWN

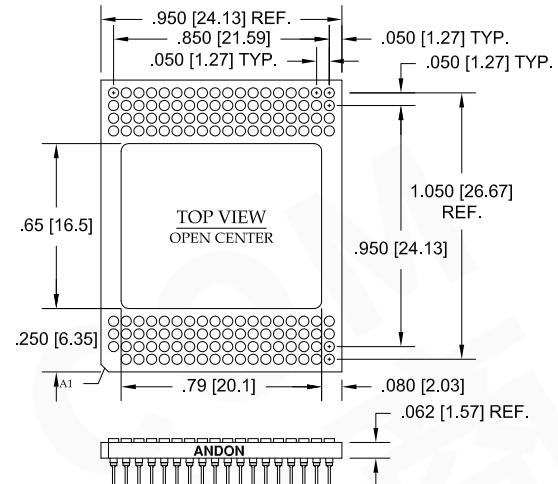
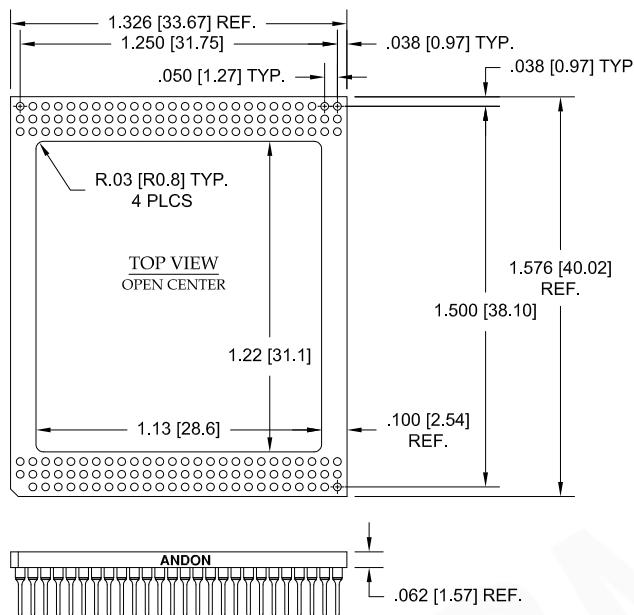


COVER & HARDWARE SHOWN

**Fig. 41**

Thru-Hole: 691-48-TH-491-R27-L14-1  
 Surface Mount: 691-48-SM-500-R27-L14-1

**ON Semiconductor *Continued*  
Image Sensor Socket Footprints**  
*Units: in [mm]*

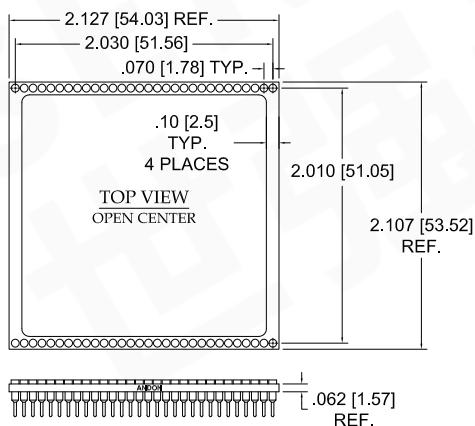


**Fig. 43**

Thru-Hole: 10-22-11-143-**400T4**-R27-L14

Surface Mount: 10-22-11-143-**414T4**-R27-L14

Rollerball® : 10-22-11-143-**RB501T4**-R27-L14



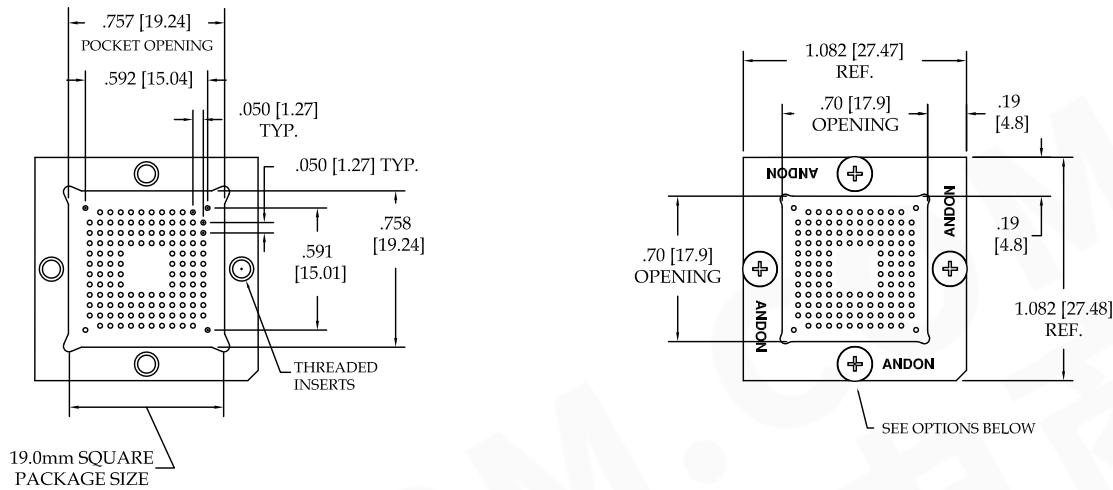
**Fig. 44**

Thru-Hole: IS230-2060-**75M**-R27-L14

Surface Mount: IS230-2060-**265M**-R27-L14

**ON Semiconductor *Continued***  
**Image Sensor Socket Footprints**  
*Units: in [mm]*

**TOP VIEW**



GUIDE &amp; BASE SHOWN

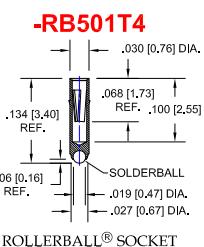
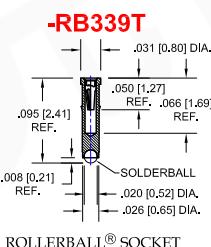
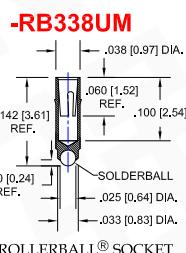
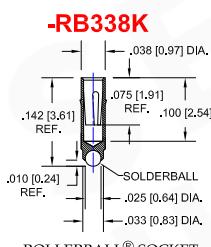
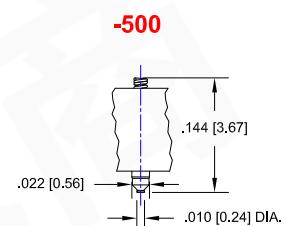
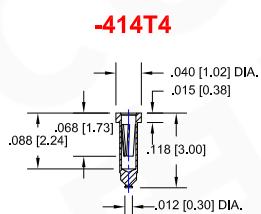
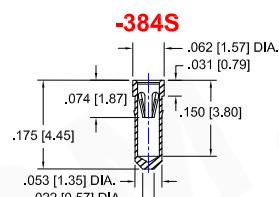
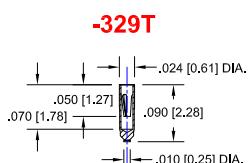
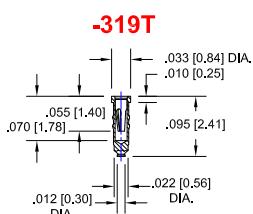
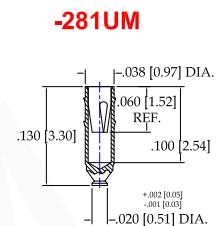
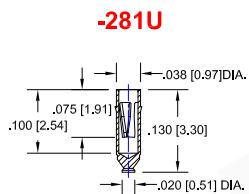
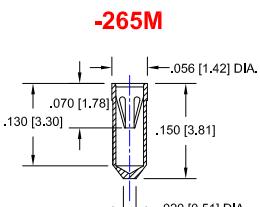
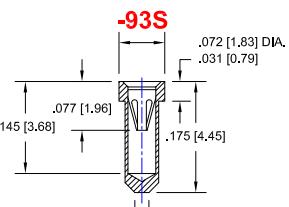
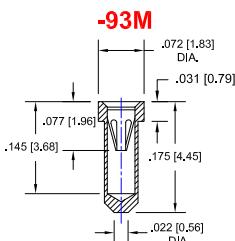
COVER &amp; HARDWARE SHOWN

**Fig. 45**

**Thru-Hole:** 683-128-**TH-491-R27-L14-1**  
**Surface Mount:** 683-128-**SM-500-R27-L14-1**  
**Rollerball®:** 683-128-**RB-593-R27-L14-1**

**ON Semiconductor Continued**  
**Socket Terminal Details**  
**Cross Section View Shown Units: in [mm]**  
 Other Terminal Layouts and Configurations available

**SURFACE MOUNT OPTION**



ROLLERBALL® SOCKET  
U.S. PATENT # 6,352,437  
CANADIAN PATENT # 2,388,520

ROLLERBALL® SOCKET  
U.S. PATENT # 6,352,437  
CANADIAN PATENT # 2,388,520

ROLLERBALL® SOCKET  
U.S. PATENT # 6,352,437  
CANADIAN PATENT # 2,388,520

## Technical Information

### 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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### RoHS Compliant

Andon Proprietary Information

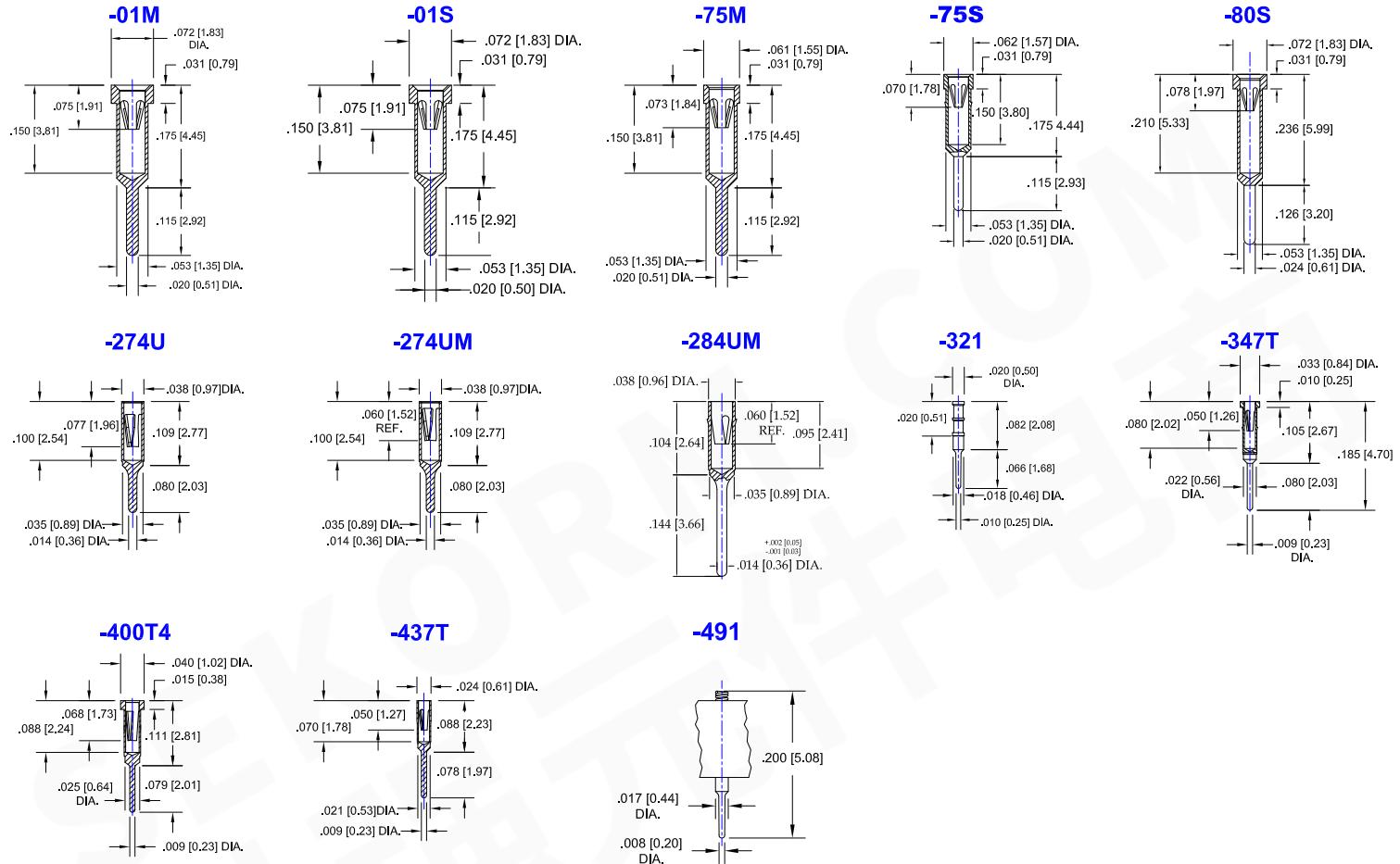
\*Sockets are not drawn to scale ON Semiconductor 06/04/2018

## ON Semiconductor Continued Socket Terminal Details

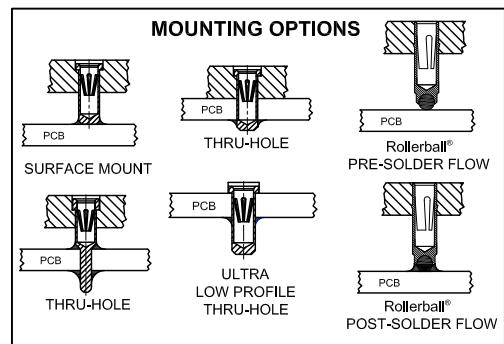
Cross Section View Shown Units: in [mm]

Other Terminal Layouts and Configurations available

### THRU HOLE 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
-80S	.018 [.0046]	9.0 oz Avg.	2.0 oz Min	-93S	.018 [.0046]	9.0 oz Avg.	2.0 oz Min
-437T	.010 [.0025]	1.0 oz Avg.	0.3 oz Min	-329T	.010 [.0025]	1.0 oz Avg.	0.3 oz Min
-75S	.018 [.0046]	9.0 oz Avg.	2.0 oz Min	-384S	.018 [.0046]	9.0 oz Avg.	2.0 oz Min
-75M	.018 [.0046]	1.6 oz Avg.	0.5 oz Min	-265M	.018 [.0046]	1.6 oz Avg.	0.5 oz Min
-01M	.018 [.0046]	1.6 oz Avg.	0.5 oz Min	-93M	.018 [.0046]	1.6 oz Avg.	0.5 oz Min
-400T4	.012 [.0030]	1.1 oz Avg.	0.3 oz Min	-414T4	.012 [.0030]	1.1 oz Avg.	0.3 oz Min
-347T	.010 [.0025]	1.0 oz Avg.	0.3 oz Min	-319T	.010 [.0025]	1.0 oz Avg.	0.3 oz Min
-274U	.018 [.0046]	2.8 oz Avg.	0.5 oz Min	-281U	.018 [.0046]	2.8 oz Avg.	0.5 oz Min
-274UM	.018 [.0046]	2.1 oz Avg.	.53 oz Min	-281UM	.018 [.0046]	2.1 oz Avg.	.53 oz Min
-284UM	.018 [.0046]	2.1 oz Avg.	.53 oz Min	-500	-	-	-
-491	-	-	-	-RB338K	.018 [.0046]	1.6 oz Avg.	0.5 oz Min
				-RB338UM	.018 [.0046]	2.1 oz Avg.	.53 oz Min
				-RB339T	.010 [.0025]	1.0 oz Avg.	0.3 oz Min
				-RB501T4	.012 [.0030]	1.1 oz Avg.	0.3 oz Min



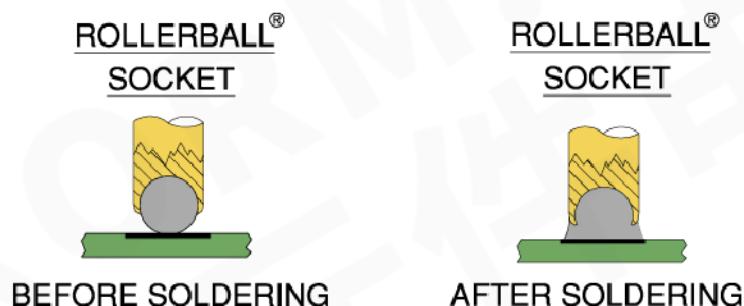
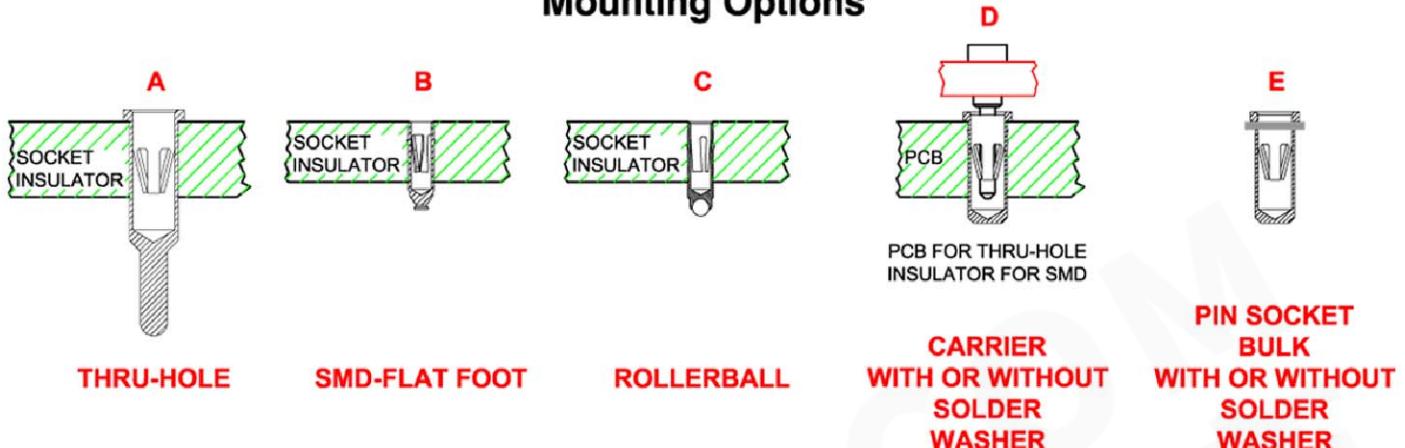
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RoHS Compliant

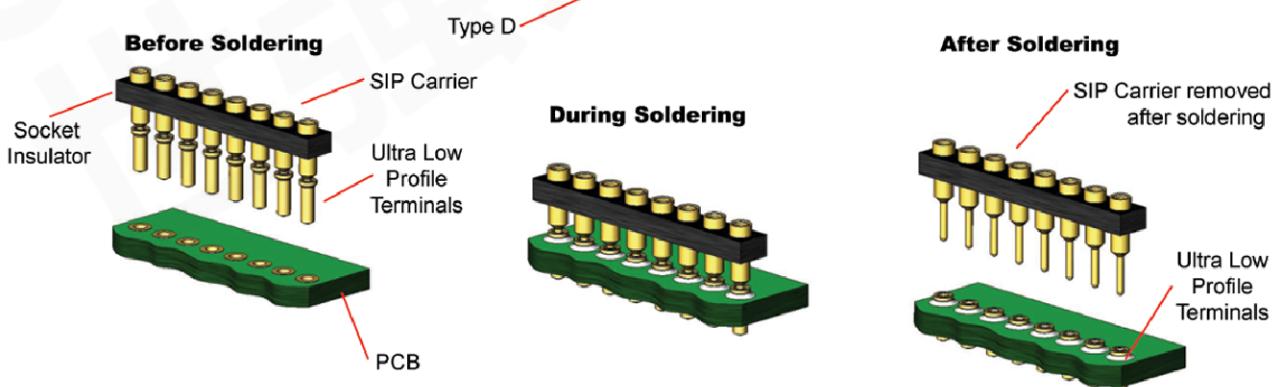
Andon Proprietary Information

\*Sockets are not drawn to scale ON Semiconductor 06/04/2018

## Mounting Options



### ULTRA LOW PROFILE SIP/DIP/PGA CARRIER ASSEMBLY



Available with or without solder washer