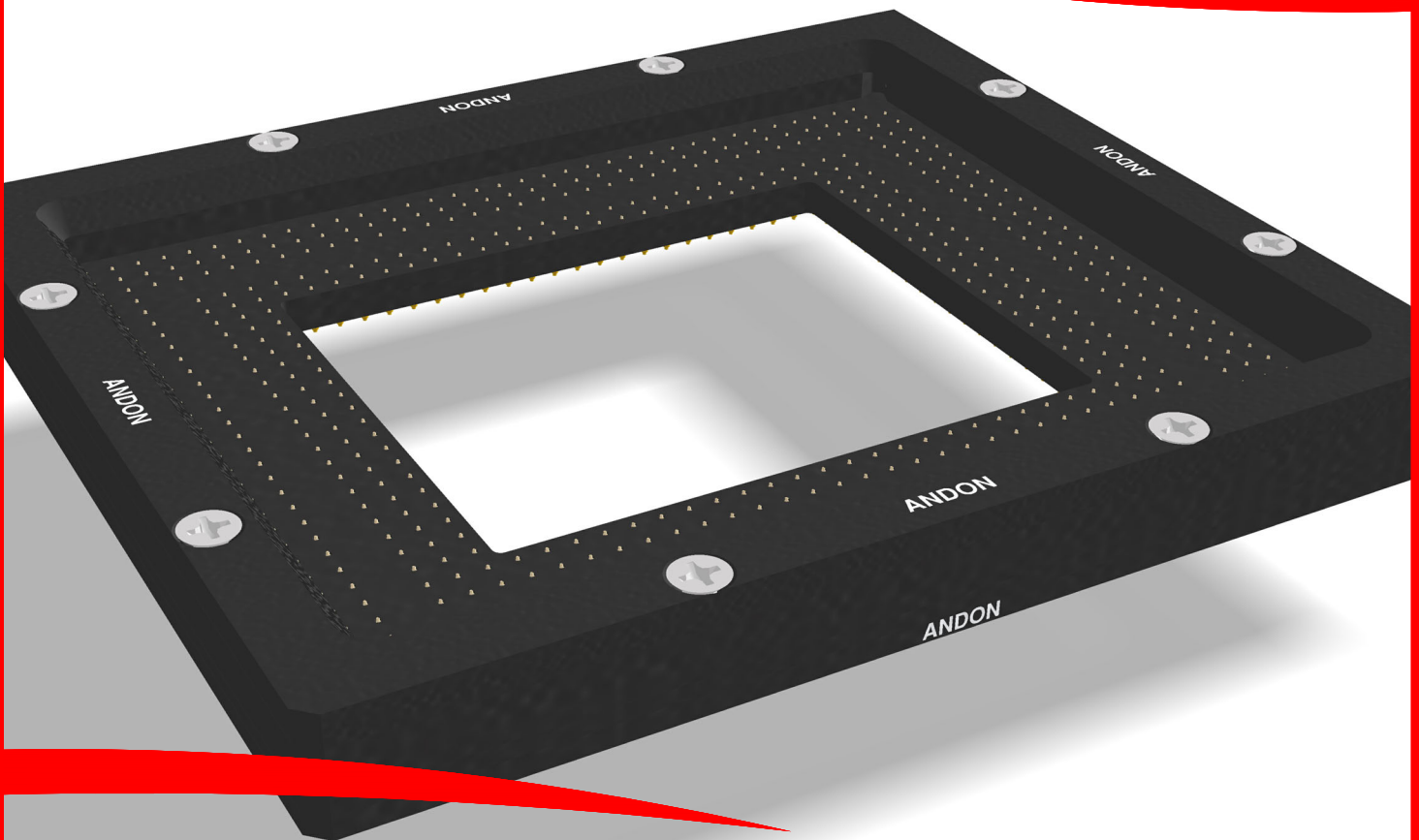




High-Reliability Image Sensor Sockets for Sony Inc.

SONY®



Featuring Andon's Unique Senstac[™] Contact

SONY							
Image Sensor Number	Andon Part Number Replace "XXX" with Terminal Type Replace "XX" with TH or SM	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball®			
IMX104LQJ-C	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX123LQJ-C	12-11-04A-098-XX-XXX-C1116-1L	TH-491	SM-500	SM-RB593	-	2	3
IMX124LQJ-C	12-11-04A-098-XX-XXX-C1116-1L	TH-491	SM-500	SM-RB593	-	2	3
IMX136LQJ-C	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX137LQK	12-10-03-074-XX-XXX-C1121-1L	TH-491	SM-500	SM-RB593	-	19	11
IMX139LQJ-C	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX140LQJ	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX147	12-11-04A-098-XX-XXX-C1116-1L	TH-491	SM-500	SM-RB593	-	2	3
IMX172LQJ	12-11-04A-098-XX-XXX-C1116-1L	TH-491	SM-500	SM-RB593	-	2	3
IMX174LLJ-C	21-13-03-118-XXX-R27-L14 (w/adaptor)	284K	281K	RB338K	.018	8	6
IMX174LLJ-C	689-118-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	3	4
IMX178LQJ-C	694-132-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	5	5
IMX183CLK-C	21-13-03-118-XXX-R27-L14	284K	281K	RB338K	.018	8	6
IMX185LQJ-C	694-132-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	5	5
IMX204	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX211	685-342-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	26	14
IMX222LQJ	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX224LQR	684-110A-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	18	10
IMX225LQR	684-110A-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	18	10
IMX226CQJ	694-132-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	5	5
IMX236LQJ	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX238LQJ-C	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX249LLJ/LQJ	21-13-03-118-XXX-R27-L14 (w/adaptor)	284K	281K	RB338K	.018	8	6
IMX249LLJ/LQJ	689-118-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	3	4
IMX250LLR-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX250LLR-C	694-226-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	1	3
IMX252LLR-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX252LLR-C	694-226-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	1	3
IMX253LLR-C/LQR-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX253LLR-C/LQR-C	694-226A-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	15	9
IMX255LLR-C/LQR-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX255LLR-C/LQR-C	694-226A-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	15	9
IMX264LLR/LQR-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX264LLR/LQR-C	694-226-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	1	3
IMX265LLR-C/LOR	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX265LLR-C	694-226-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	1	3
IMX267LLR/LQR	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX267LLR/LQR	694-226A-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	15	9
IMX269	692-144-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	34	18
IMX271	692-184-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	29	15
IMX272	689-194-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	30	16
IMX273LLR-C	12-13-04-138-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	9	7
IMX273LLR-C	694-138-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	13	8
IMX274LQC	684-092-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	20	11
IMX277	12-11-04A-098-XX-XXX-C1116-1L	TH-491	SM-500	SM-RB593	-	2	3
IMX283	21-13-03-118-XXX-R27-L14	284K	281K	RB338K	.018	8	6
IMX283	689-118-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	3	4
IMX287LLR-C	12-13-04-138-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	9	7
IMX287LLR-C	694-138-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	13	8
IMX287LLR-C	12-13-04-138-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	0.01	9	7
IMX287LLR-C	694-138-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	13	8
IMX290LQR-C	684-110-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	6	5
IMX291LQR-C	684-110-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	6	5
IMX294CJ-K	21-21-02-248-XXX-R27-L14 (w/adaptor)	284K	281K	RB339T		10	7
IMX294CJ-K	689-248-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	14	8
IMX296LLR-C	12-13-04-138-XXX-R27-L14	437T	319T	RB339T	0.01	9	7
IMX297LLR-C	12-13-04-138-XXX-R27-L14	437T	319T	RB339T	0.01	9	7
IMX299	21-21-02-248-XXX-R27-L14 (w/adaptor)	284K	281K	RB339T		10	7
IMX299	689-248-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	14	8
IMX302LQJ-C	21-13-03-118-XXX-R27-L14 (w/adaptor)	284K	281K	RB338K	.018	8	6
IMX302LQJ-C	689-118-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	3	4
IMX304LLR/LQR	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX304LLR/LQR	694-226A-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	15	9
IMX305LQR	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7	6
IMX305LQR	694-226A-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	15	9
IMX307LQR-C	17-14-08-110-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	11	7
IMX307LQR-C	684-110-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	-	-	6	5
IMX317	684-092-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	20	11
IMX322LQJ-C	12-11-03A-094-XX-XXX-C1283-1L	TH-491	SM-500	SM-RB593	-	4	4
IMX323LQN	23-10-02-080-XX-XXX-C75521-1L	TH-491	SM-500	-	-	21	12
IMX326	684-092-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	20	11

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

SONY						
Image Sensor Number	Andon Part Number Replace "XXX" with Terminal Type Replace "XX" with TH or SM	Terminal Type			Pin Ø [in]	Figure Number
		Thru-Hole	Surface Mount	Rollerball®		
IMX327LQR-C	17-14-08-110-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	11
IMX327LQR-C	684-110-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	-	-	6
IMX327LQR1-C	17-14-08-110-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	11
IMX327LQR1-C	684-110-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	-	-	6
IMX334LLR-C	694-132-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	5
IMX334LQR-C	694-128-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	16
IMX342	IS230-167236P-XXX-R27-L14	75BZ	384BZ	RB338K	.018	23
IMX347LQR-C	694-132-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	5
IMX367	IS230-167236P-XXX-R27-L14	75BZ	384BZ	RB338K	.018	23
IMX377	12-11-04A-098-XX-XXX-C1116-1L	TH-491	SM-500	SM-RB593	-	2
IMX383	694-258-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	33
IMX385LQR-C	12-13-02-128-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	12
IMX385LQR-C	694-128-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	16
IMX387	IS230-167236P-XXX-R27-L14	75BZ	384BZ	RB338K	.018	23
IMX410	692-294-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	32
IMX411	692-598G-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	27
IMX412	684-092-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	20
IMX415	17-14-08-110-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	11
IMX415	684-110A-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	18
IMX420LLJ-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7
IMX420LLJ-C	694-226B-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	22
IMX421LLJ-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	7
IMX421LLJ-C	694-226C-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	25
IMX422LLJ-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	7
IMX422LLJ-C	694-226C-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	25
IMX425	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7
IMX425	694-226B-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	22
IMX428LLJ-C	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	329T	RB339T	.010	7
IMX428LLJ-C	694-226B-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	22
IMX429	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	7
IMX429	694-226C-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	25
IMX455	692-294-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	32
IMX461	692-544B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	28
IMX477	684-092-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	20
IMX482	689-118-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	3
IMX485LQJ-C	21-13-03-118-XXX-R27-L14 (w/adaptor)	284K	281K	RB338K	.018	8
IMX485LQJ-C	689-118-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	3
IMX487-AAMJ	694-226C-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	25
IMX492LQJ	21-21-02-248-XXX-R27-L14 (w/adaptor)	284K	281K	RB339T	-	10
IMX492LQJ	689-248-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	14
IMX511	684-144-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	36
IMX530	694-234-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	37
IMX530	12-17-04-234-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	44
IMX531	694-234-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	37
IMX531	12-17-04-234-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	44
IMX532	694-234-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	37
IMX532	12-17-04-234-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	44
IMX533	683-178-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	31
IMX540	694-234-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	37
IMX540	12-17-04-234-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	44
IMX541	694-234-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	37
IMX541	12-17-04-234-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	44
IMX542	694-234-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	37
IMX542	12-17-04-234-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	44
IMX556	694-136-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	40
IMX567	12-17-04-226-XXX-R27-L14 (w/adaptor)	437T	319T	RB339T	.010	7
IMX567	694-226C-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	25
IMX568	694-132-XX-XXX-R27-L14-1 (w/cover & screws)	TH-491	SM-500	SM-RB593	-	5
IMX570	684-072A-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	39
IMX571	692-184-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	29
IMX577	684-092-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	20
IMX636	684-156-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	43
IMX637	684-156-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	43
IMX646	684-156-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	43
IMX661	692-598J-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	38
IMX677	684-144-XX-XXX-R27-L14-1	TH-491	SM-500	-	-	36
IMX811	692-786-XX-XXX-R27-L14-1	TH-491	-	SM-RB593	-	45
IMX861AQR-C	692-544B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	28
IMX990	694-220-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	35
IMX990	IS230-105128Q-XXX-R27-L14	75M	384M	RB338K	.018	24
IMX991	694-220-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	35
IMX991	IS230-105128Q-XXX-R27-L14	75M	384M	RB338K	.018	24
IMX992-AABJ	694-188-XX-XXX-R2-L14-1	TH-491	SM-500	SM-RB593	-	41
IMX992-AABA	10-22-18A-176-XXX-R27-L14	274UM	315UM	RB338UM	.018	42
IMX993-AABJ	694-188-XX-XXX-R2-L14-1	TH-491	SM-500	SM-RB593	-	41
IMX993-AABA	10-22-18A-176-XXX-R27-L14	274UM	315UM	RB338UM	.018	42

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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CANADIAN PATENTED

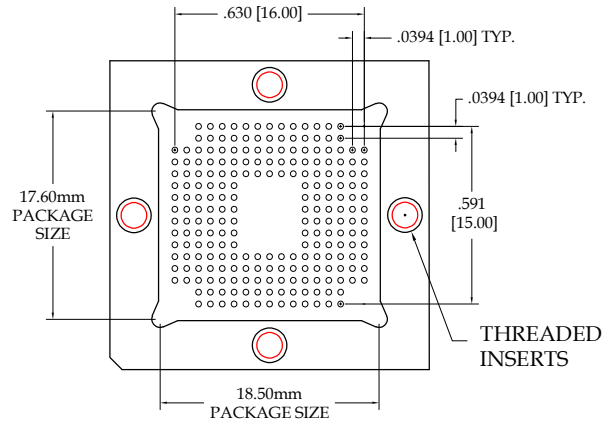
"ANDON PROPRIETARY INFORMATION"

RoHS Compliant

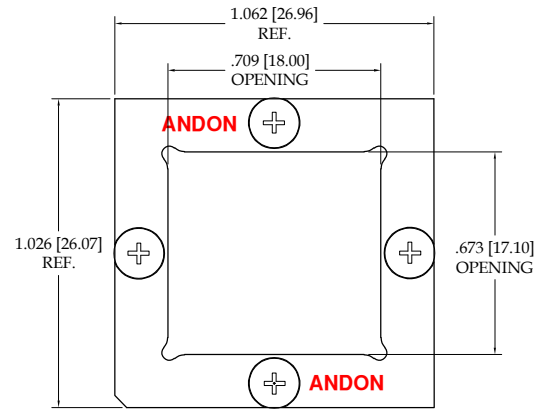
*Sockets are not drawn to scale SONY 03/25/2024

SONY Continued Image Sensor Socket Footprints Units: in [mm]

TOP VIEW



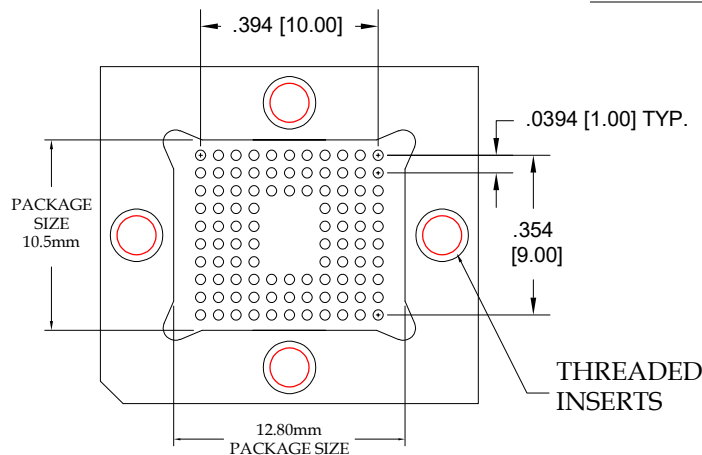
GUIDE & BASE SHOWN



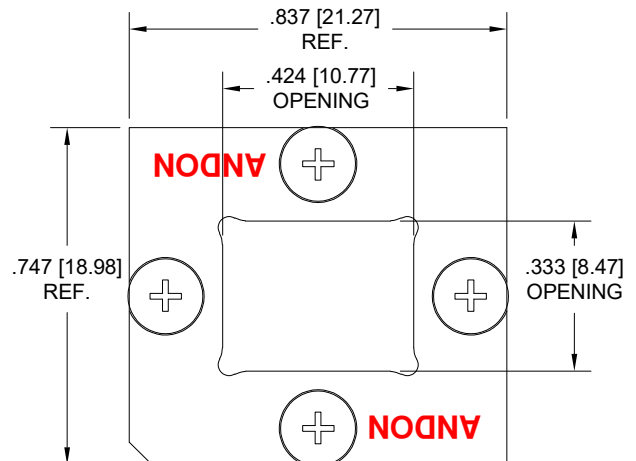
COVER & HARDWARE SHOWN

Fig. 01 226 Pins
Thru-Hole: 694-226-TH-491-R27-L14-1
Surface Mount: 694-226-SM-500-R27-L14-1
Rollerball® : 694-226-SM-RB593-R27-L14-1

TOP VIEW



GUIDE & BASE SHOWN



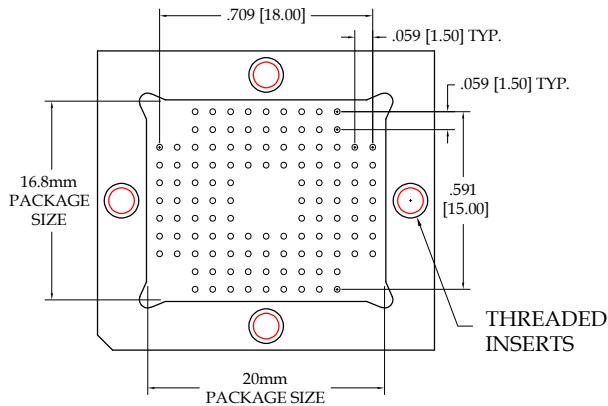
COVER & HARDWARE SHOWN

Fig. 02 98 Pins
Thru-Hole: 12-11-04A-098-TH-491-C1116-1L
Surface Mount: 12-11-04A-098-SM-500-C1116-1L
Rollerball® : 12-11-04A-098-SM-RB593-C1116-1L

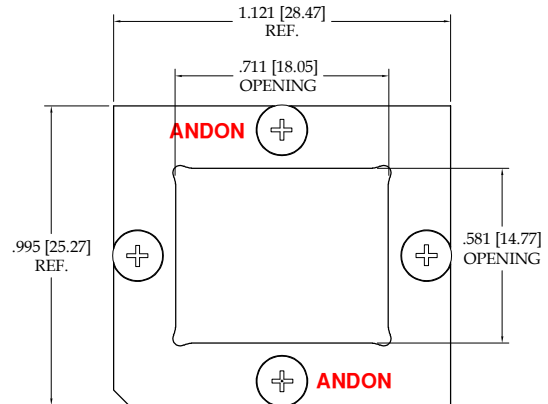
SONY Continued Image Sensor Socket Footprints

Units: in [mm]

TOP VIEW



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

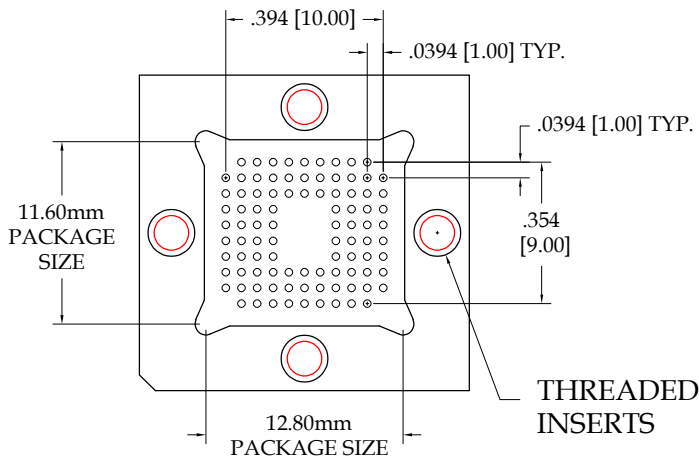
Fig. 03 118 Pins

Thru-Hole: 689-118-TH-491-R27-L14-1

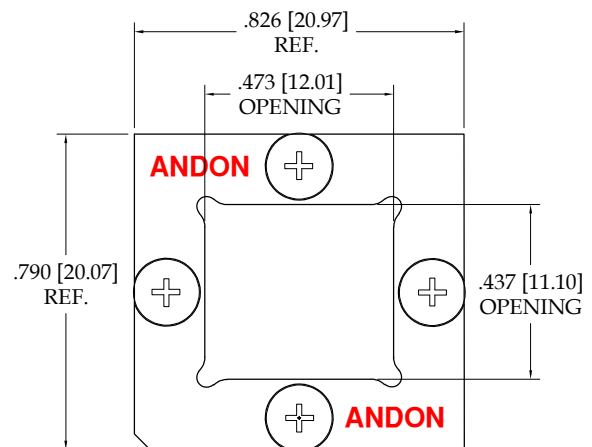
Surface Mount: 689-118-SM-500-R27-L14-1

Rollerball® : 689-118-SM-RB593-R27-L14-1

TOP VIEW



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 04 94 Pins

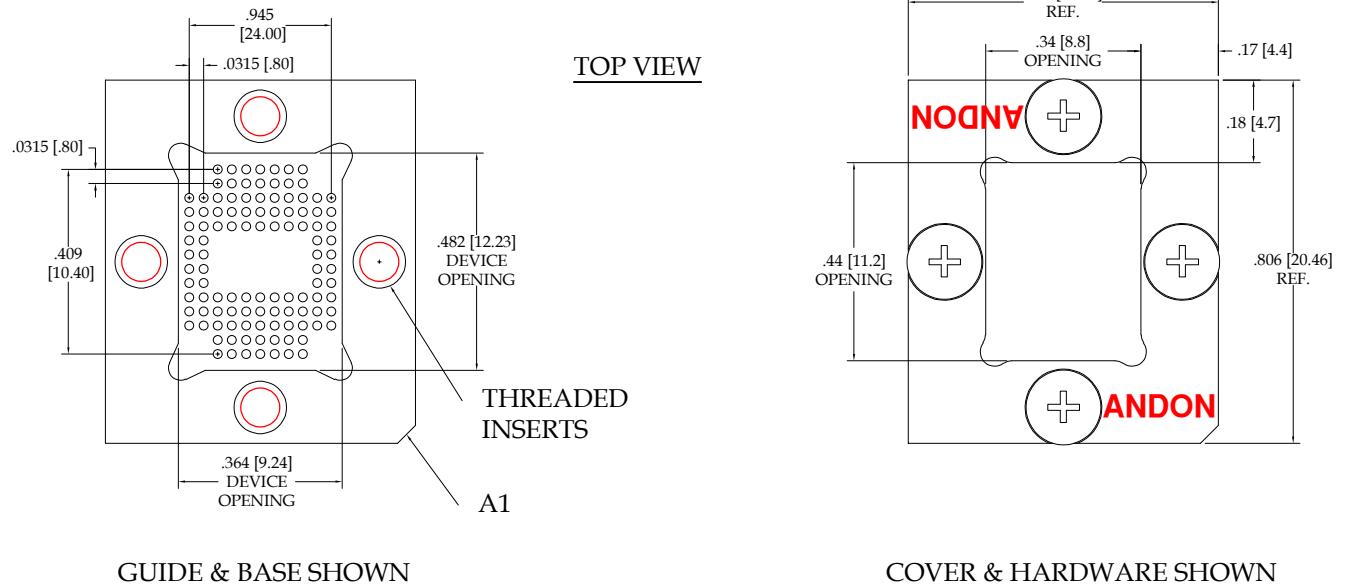
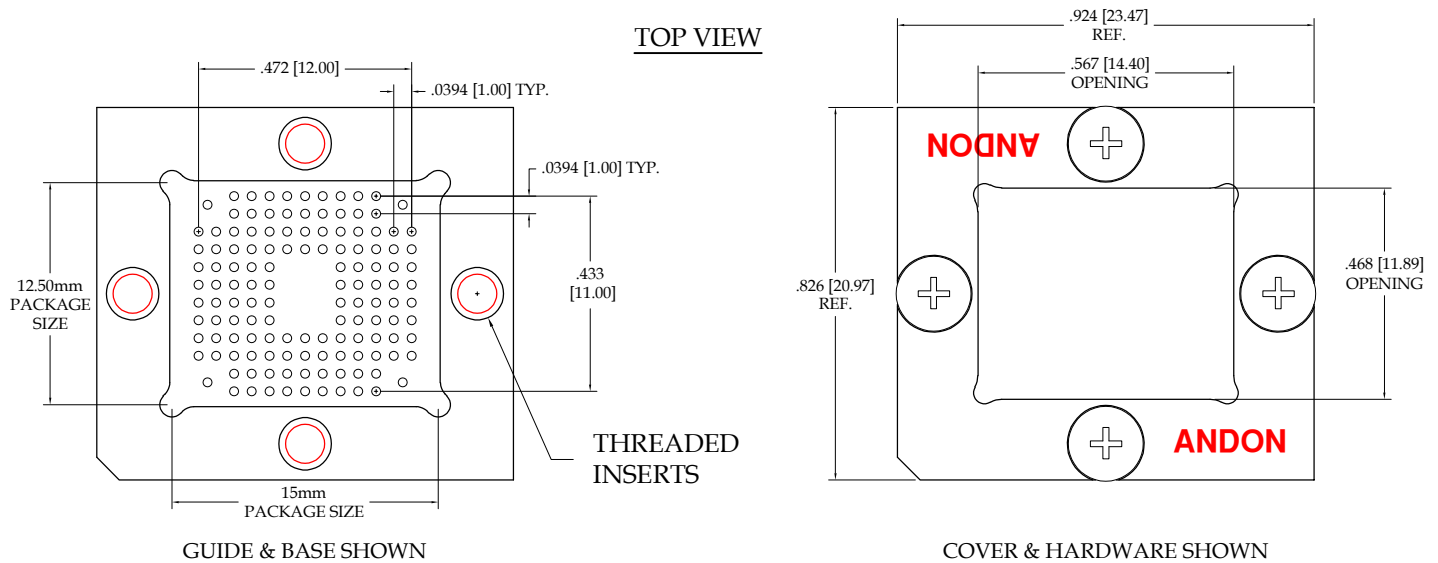
Thru-Hole: 12-11-03A-094-TH-491-C1283-1L

Surface Mount: 12-11-03A-094-SM-500-C1283-1L

Rollerball® : 12-11-03A-094-SM-RB593-C1283-1L

SONY Continued Image Sensor Socket Footprints

Units: in [mm]



SONY Continued Image Sensor Socket Footprints Units: in [mm]

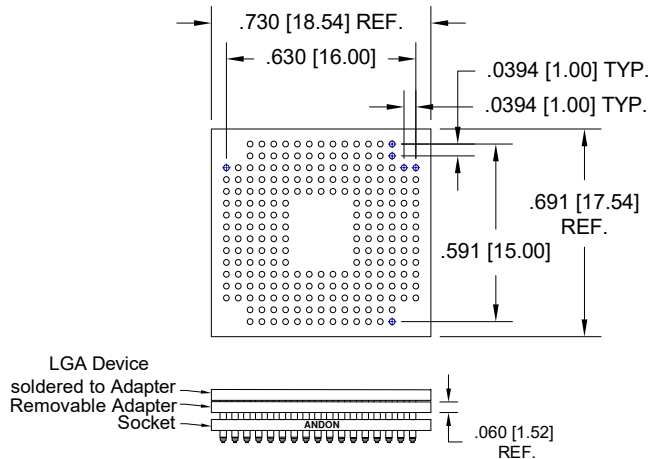
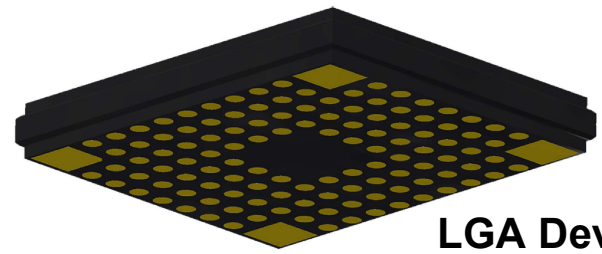
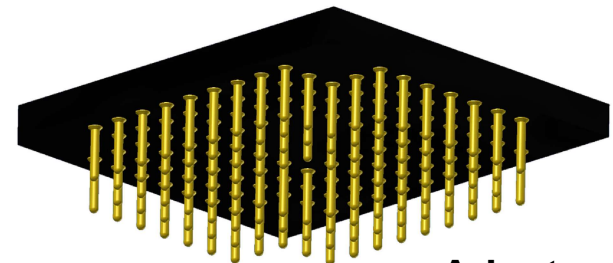


Fig. 07 226 Pins

Thru-Hole: 12-17-04-226-437T-R27-L14
Surface Mount: 12-17-04-226-329T-R27-L14
Adapter: 12-17-04-226-321-G10-L14
Rollerball® : 12-17-04-226-RB339T-R27-L14



LGA Device



Adapter



Socket

(surface mount shown)

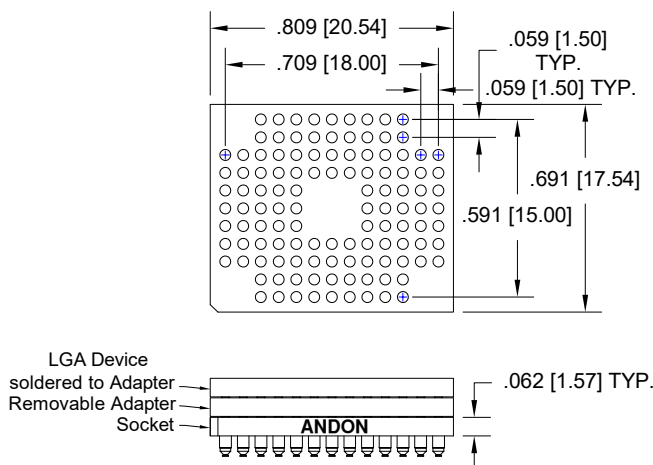


Fig. 08 118 Pins

Thru-Hole: 21-13-03-118-284K-R27-L14
Surface Mount: 21-13-03-118-281K-R27-L14
Adapter: 21-13-03-118-355-G10-L14
Rollerball® : 21-13-03-118-RB338K-R27-L14

SONY Continued Image Sensor Socket Footprints Units: in [mm]

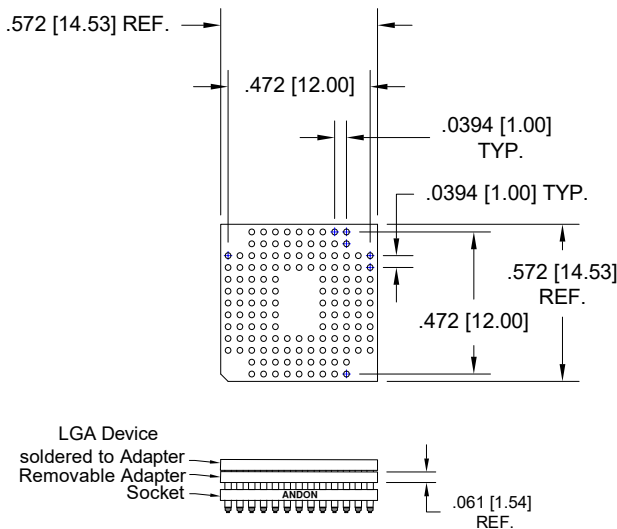


Fig. 09 138 Pins

Thru-Hole: 12-13-04-138-437T-R27-L14
Surface Mount: 12-13-04-138-319T-R27-L14
Adapter: 12-13-04-138-321-G10-L14
Rollerball®: 12-13-04-138-RB339T-R27-L14

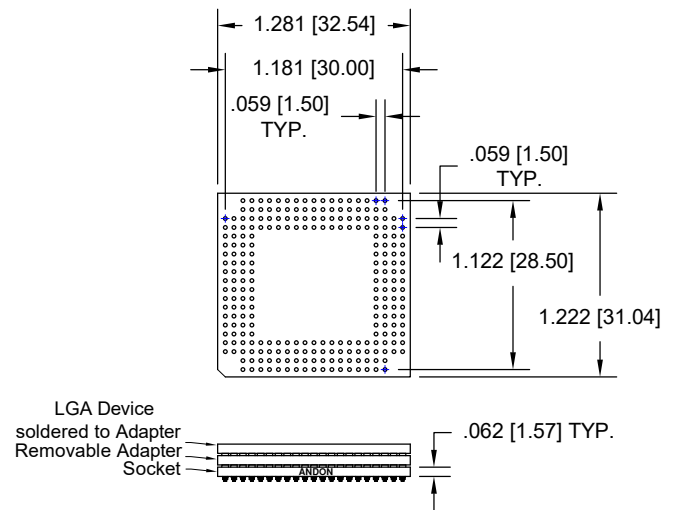


Fig. 10 248 Pins

Thru-Hole: 21-21-02-248-281K-R27-L14
Surface Mount: 21-21-02-248-284K-R27-L14
Adapter: 21-21-02-248-355-G10-L14
Rollerball®: 21-21-02-248-RB339T-R27-L14

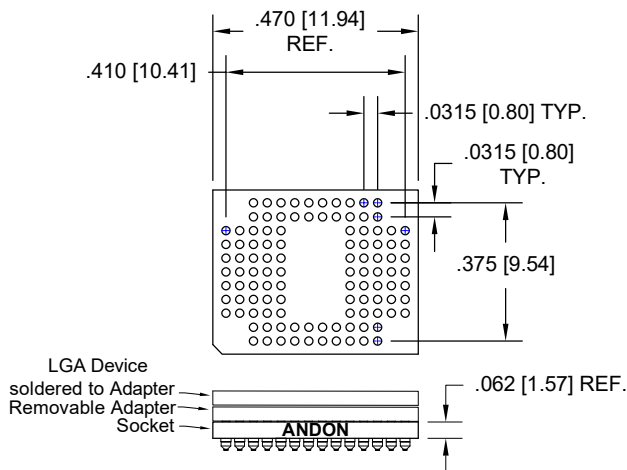


Fig. 11 110 Pins

Thru-Hole: 17-14-08-110-437T-R27-L14
Surface Mount: 17-14-08-110-329T-R27-L14
Adapter: 17-14-08-110-321-G10-L14
Rollerball®: 17-14-08-110-RB339T-R27-L14

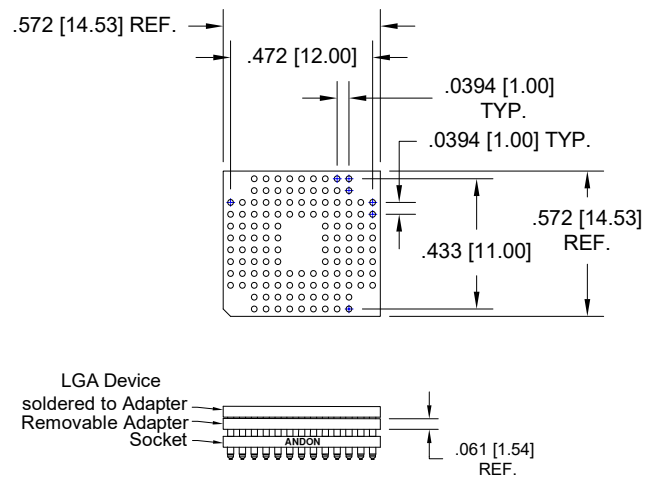


Fig. 12 128 Pins

Thru-Hole: 12-13-02-128-437T-R27-L14
Surface Mount: 12-13-02-128-319T-R27-L14
Adapter: 12-13-02-128-321-G10-L14
Rollerball®: 12-13-02-128-RB339T-R27-L14

SONY Continued Image Sensor Socket Footprints

Units: in [mm]

TOP VIEW

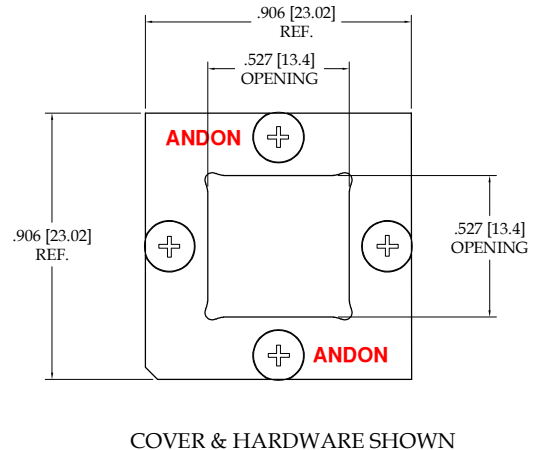
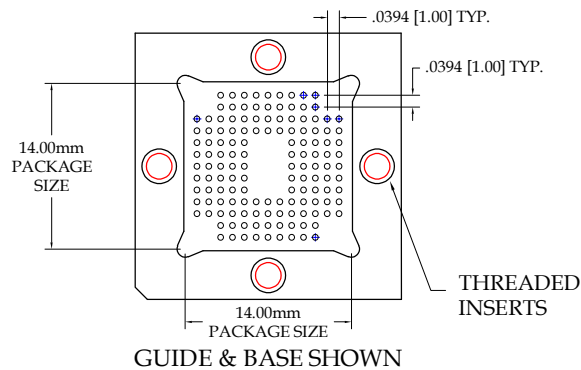


Fig. 13 **138 Pins**
 Thru-Hole: 694-138-TH-491-R27-L14-1
 Surface Mount: 694-138-SM-500-R27-L14-1
 Rollerball® : 694-138-SM-RB593-R27-L14-1

TOP VIEW

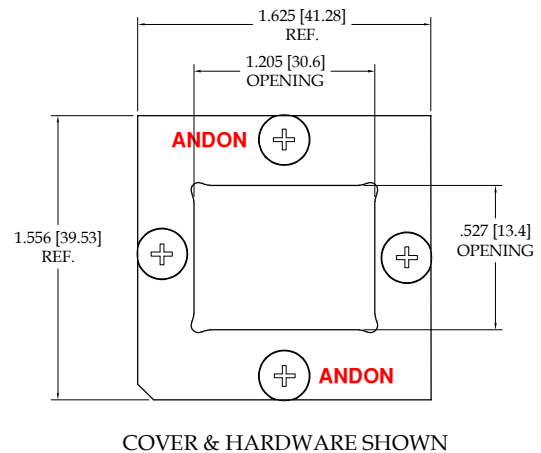
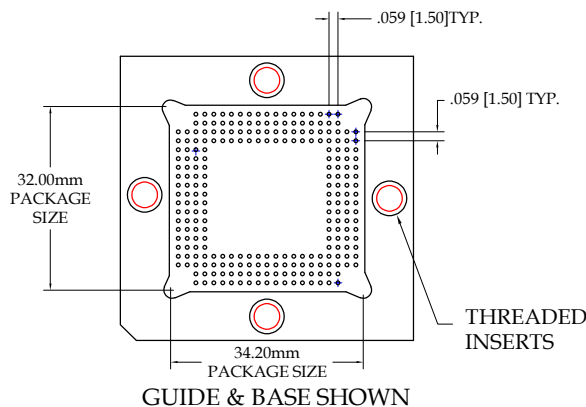
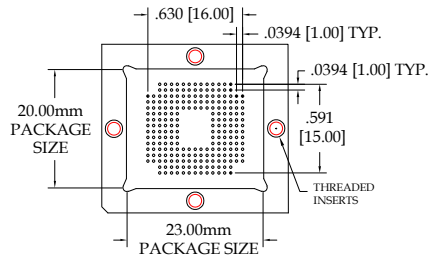


Fig. 14 **248 Pins**
 Thru-Hole: 689-248-TH-491-R27-L14-1
 Surface Mount: 689-248-SM-500-R27-L14-1
 Rollerball® : 689-248-SM-RB593-R27-L14-1

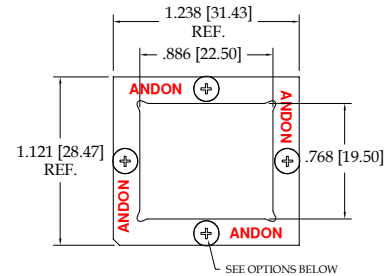
SONY Continued Image Sensor Socket Footprints

Units: in [mm]

TOP VIEW



GUIDE & BASE SHOWN

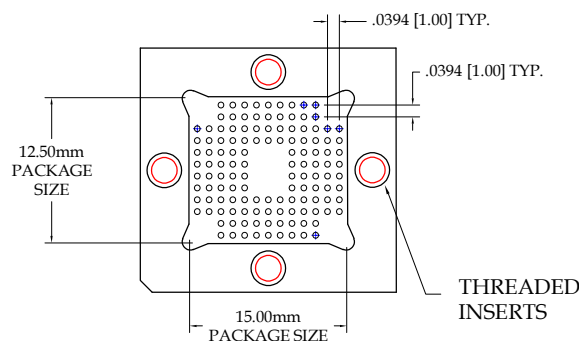


COVER & HARDWARE SHOWN

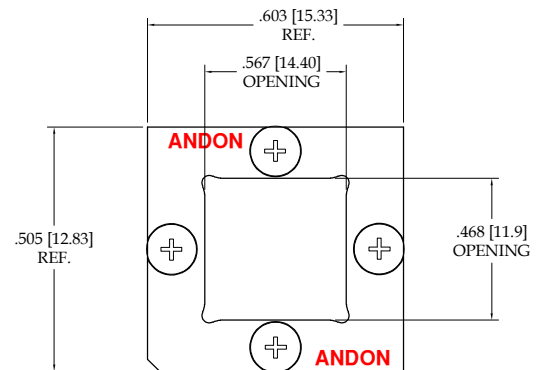
Fig. 15 226 Pins

Thru-Hole: 694-226A-TH-491-R27-L14-1
Surface Mount: 694-226A-SM-500-R27-L14-1
Rollerball® : 694-226A-SM-RB593-R27-L14-1

TOP VIEW



GUIDE & BASE SHOWN

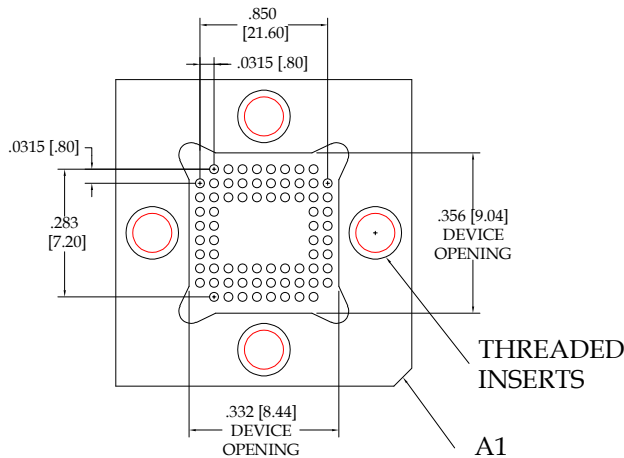


COVER & HARDWARE SHOWN

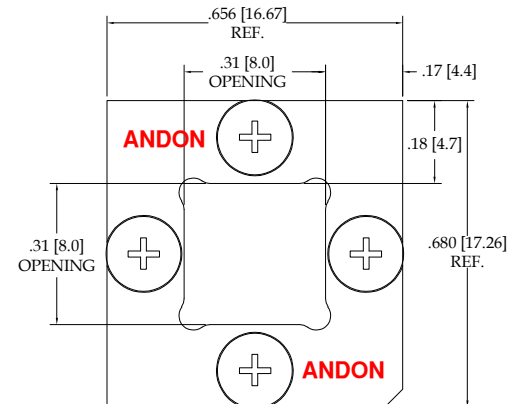
Fig. 16 128 Pins

Thru-Hole: 694-128-TH-491-R27-L14-1
Surface Mount: 694-128-SM-500-R27-L14-1
Rollerball® : 694-128-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]



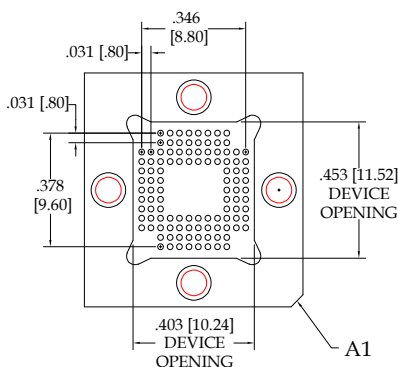
GUIDE & BASE SHOWN



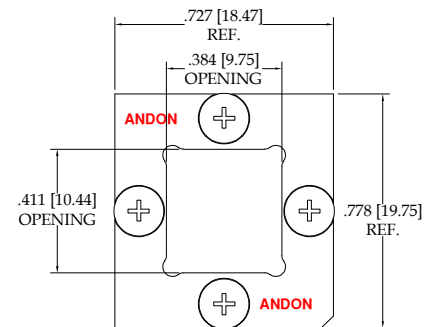
COVER & HARDWARE SHOWN

Fig. 17 **72 Pins**
Thru-Hole: 684-072-TH-491-R27-L14-1
Surface Mount: 684-072-SM-500-R27-L14-1

TOP VIEW



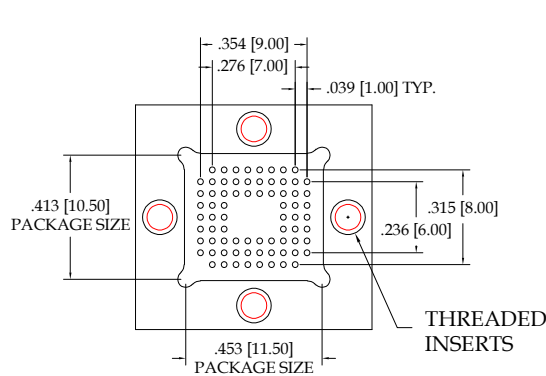
GUIDE & BASE SHOWN



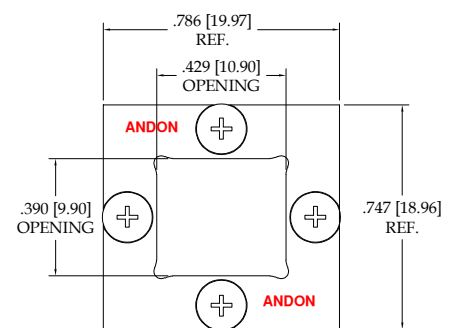
COVER & HARDWARE SHOWN

Fig. 18 **110 Pins**
Thru-Hole: 684-110A-TH-491-R27-L14-1
Surface Mount: 684-110A-SM-500-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]



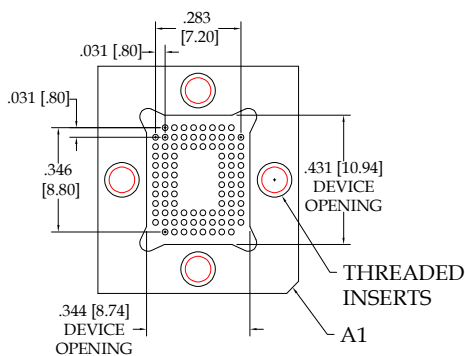
GUIDE & BASE SHOWN



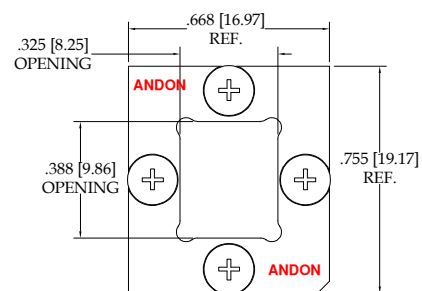
COVER & HARDWARE SHOWN

Fig. 19 74 Pins

Thru-Hole: 12-10-03-074-TH-491-C1121-1L
Surface Mount: 12-10-03-074-SM-500-C1121-1L
Rollerball® : 12-10-03-074-SM-RB593-C1121-1L



GUIDE & BASE SHOWN

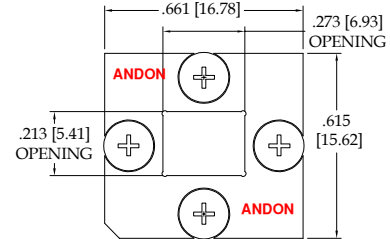
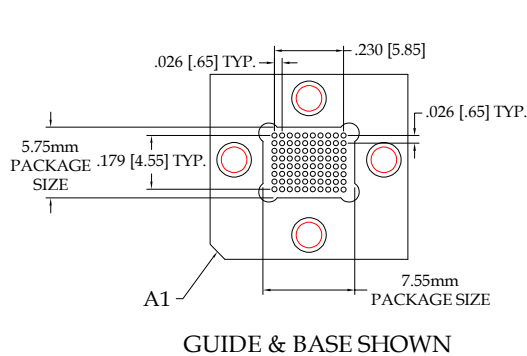


COVER & HARDWARE SHOWN

Fig. 20 92 Pins

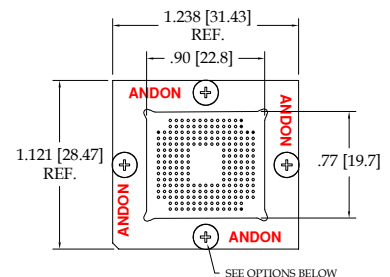
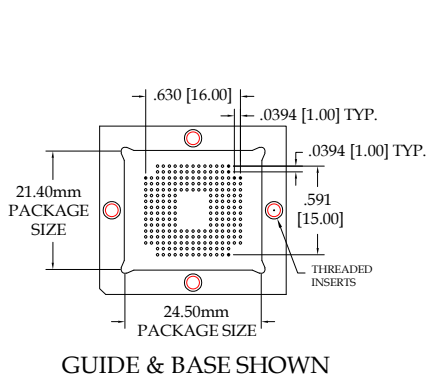
Thru-Hole: 684-092-TH-491-R27-L14-1
Surface Mount: 684-092-SM-500-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]



COVER & HARDWARE SHOWN

Fig. 21 **80 Pins**
Thru-Hole: 23-10-02-080-TH-491-C75521-1L
Surface Mount: 23-10-02-080-SM-500-C75521-1L



COVER & HARDWARE SHOWN

Fig. 22 **226 Pins**
Thru-Hole: 694-226B-TH-491-R27-L14-1
Surface Mount: 694-226B-SM-500-R27-L14-1
Rollerball® : 694-226B-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]

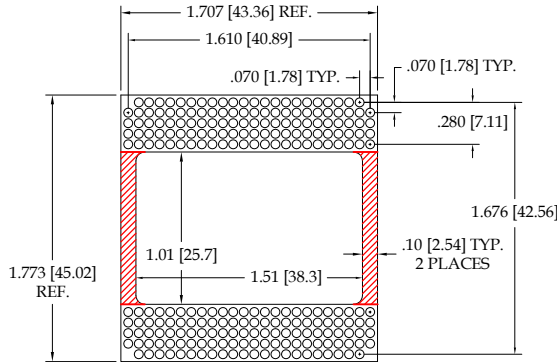


Fig. 23 **236 Pins**

Thru-Hole: IS230-167236P-**75BZ**-R27-L14

Surface Mount: IS230-167236P-**384BZ**-R27-L14

Rollerball® : IS230-167236P-**RB338K**-R27-L14-1

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:
9-IS230-167236P-XXX-R27-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

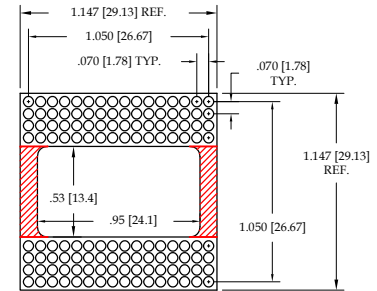


Fig. 24 **128 Pins**

Thru-Hole: IS230-105128Q-**75BZ**-R27-L14

Surface Mount: IS230-105128Q-**384BZ**-R27-L14

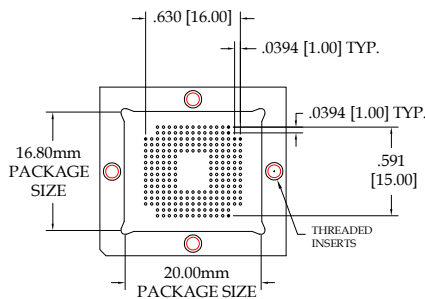
Rollerball® : IS230-105128Q-**RB338K**-R27-L14-1

Note: The Insulator sections denoted in red can be omitted and replaced with the following DIP Carrier-dual SIP socket combination:
9-IS230-105128Q-XXX-R27-L14-SIP

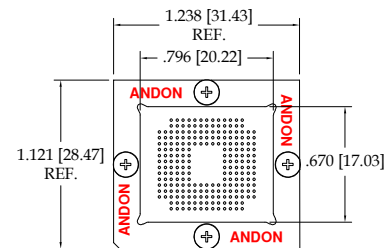
Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

TOP VIEW



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 25 **226 Pins**

Thru-Hole: 694-226C-TH-**491**-R27-L14-1

Surface Mount: 694-226C-SM-**500**-R27-L14-1

Rollerball® : 694-226C-SM-**RB593**-R27-L14-1

SONY Continued Image Sensor Socket Footprints

Units: in [mm]

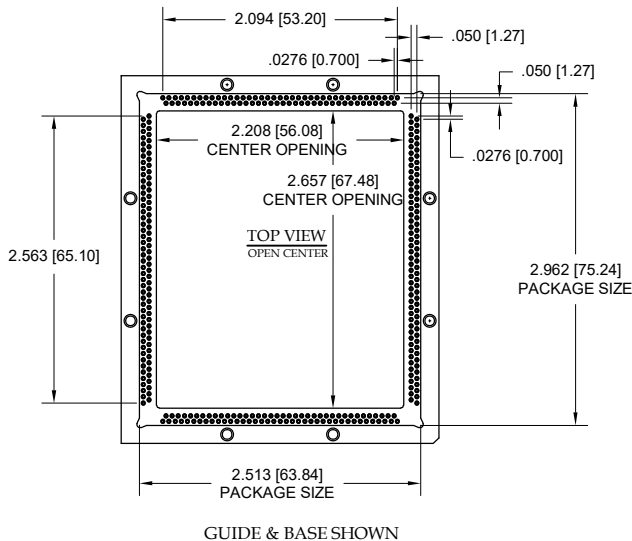


Fig. 26 **342 Pins**
Thru-Hole: 685-342-TH-491-R27-L14-1
Surface Mount: 685-342-SM-500-R27-L14-1

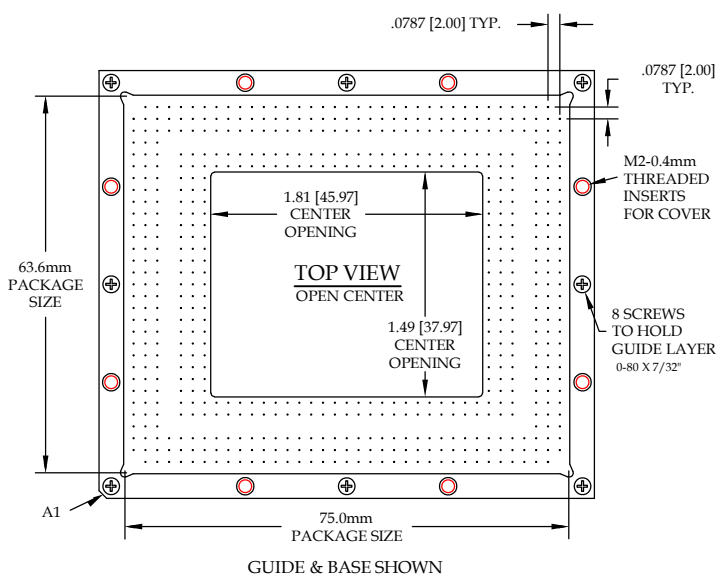
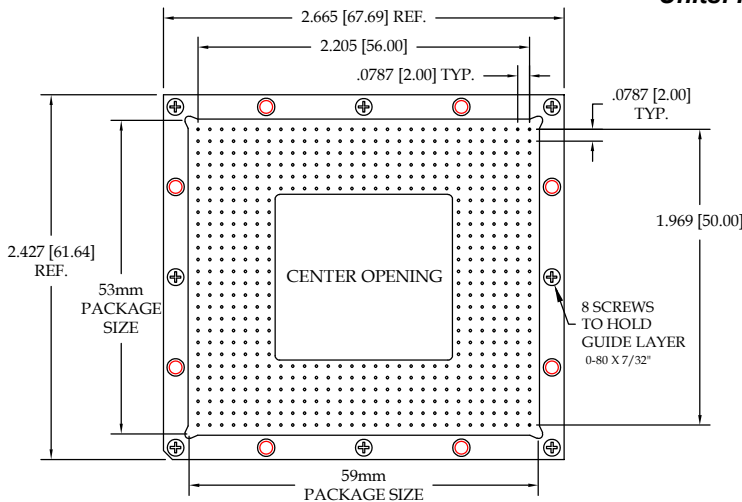


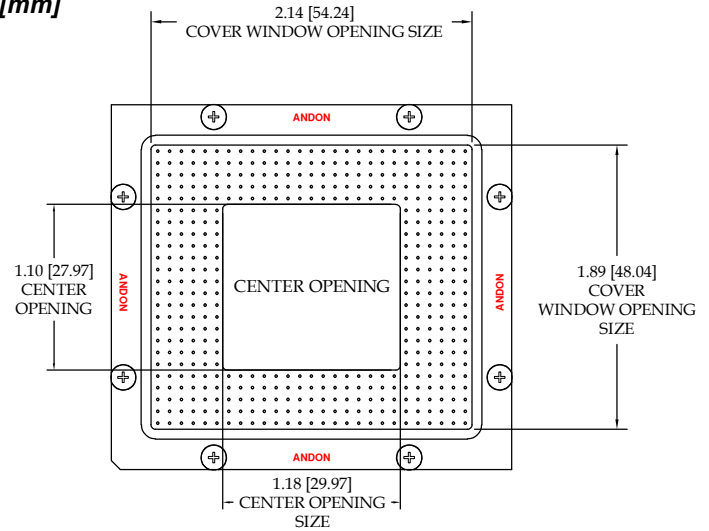
Fig. 27 **598 Pins**
Thru-Hole: 692-598G-TH-491-R27-L14-1
Surface Mount: 692-598G-SM-500-R27-L14-1
Rollerball® : 692-598G-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints

Units: in [mm]



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

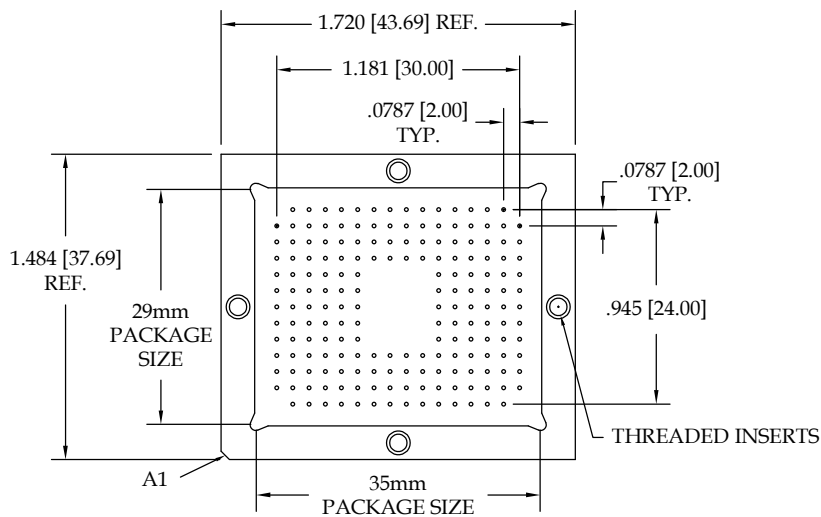
Fig. 28

544 Pins

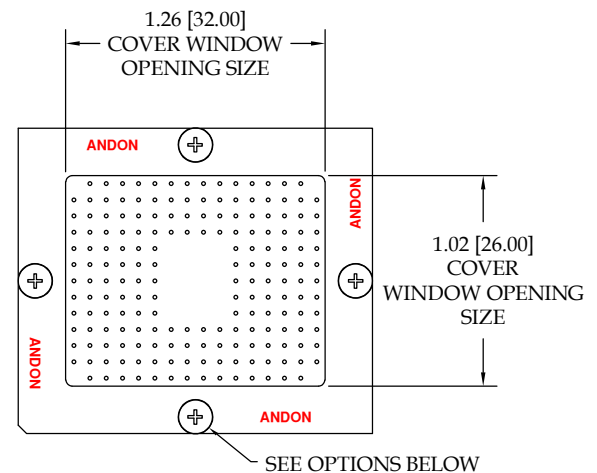
Thru-Hole: 692-544B-TH-491-R27-L14-1

Surface Mount: 692-544B-SM-500-R27-L14-1

Rollerball® : 692-544B-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 29

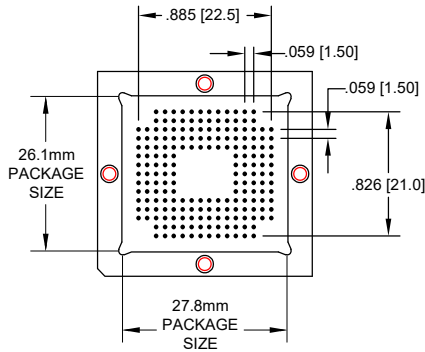
184 Pins

Thru-Hole: 692-184-TH-491-R27-L14-1

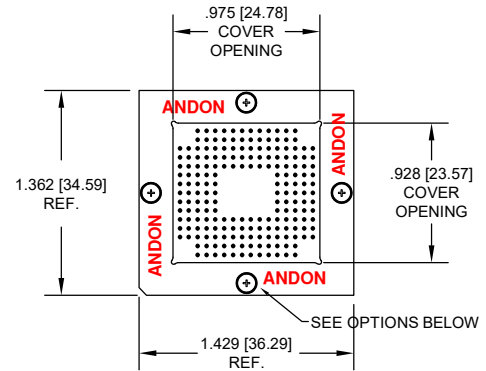
Surface Mount: 692-184-SM-500-R27-L14-1

Rollerball® : 692-184-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]



GUIDE & BASE SHOWN



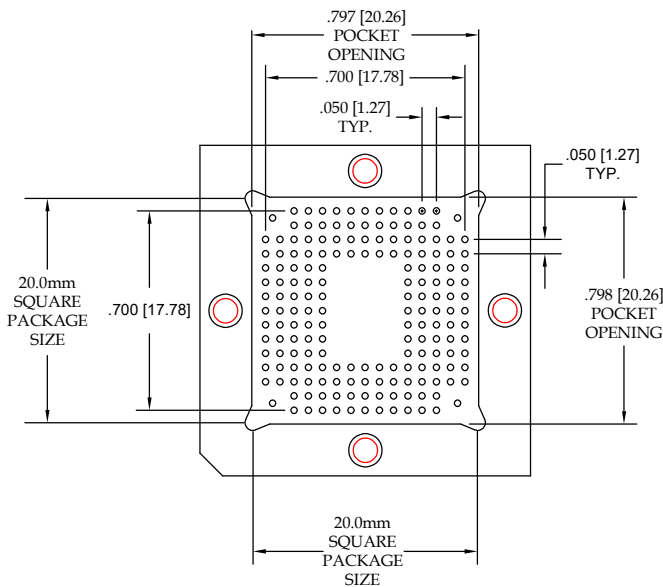
COVER & HARDWARE SHOWN

Fig. 30 194 Pins

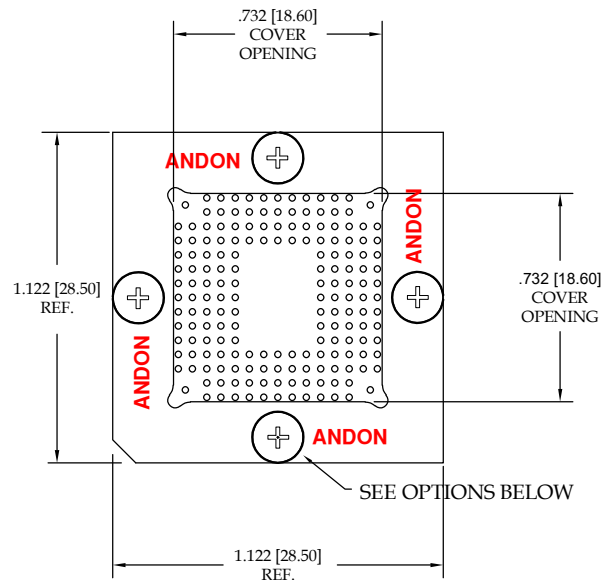
Thru-Hole: 689-194-TH-491-R27-L14-1

Surface Mount: 689-194-SM-500-R27-L14-1

Rollerball® : 689-194-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

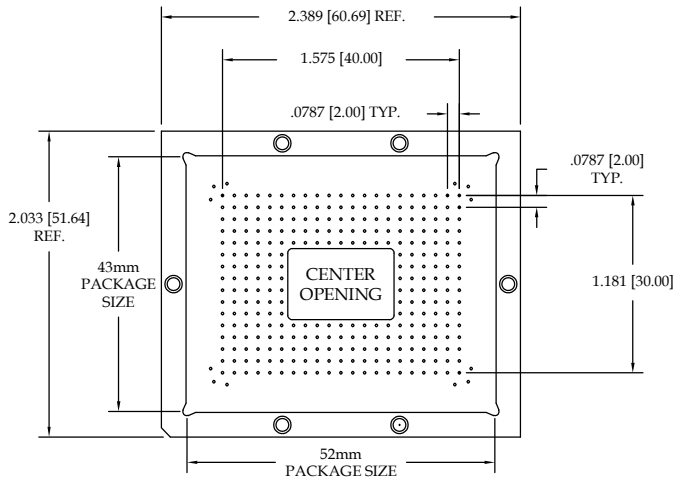
Fig. 31 178 Pins

Thru-Hole: 683-178-TH-491-R27-L14-1

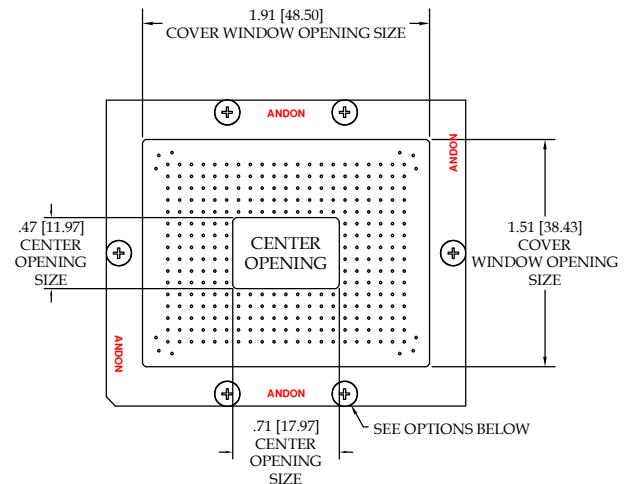
Surface Mount: 683-178-SM-500-R27-L14-1

Rollerball® : 683-178-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]

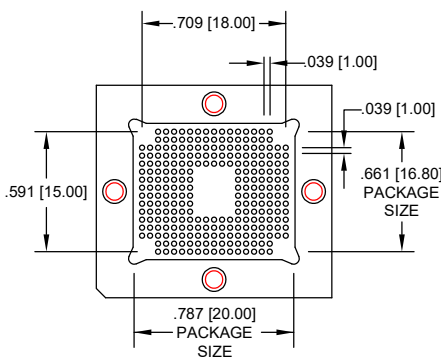


GUIDE & BASE SHOWN

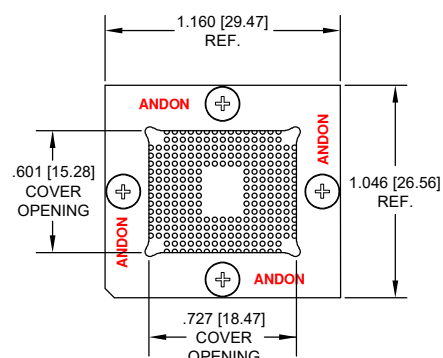


COVER & HARDWARE SHOWN

Fig. 32 294 Pin
Thru-Hole: 692-294-TH-491-R27-L14-1
Surface Mount: 692-294-SM-500-R27-L14-1
Rollerball® : 692-294-SM-RB593-R27-L14-1



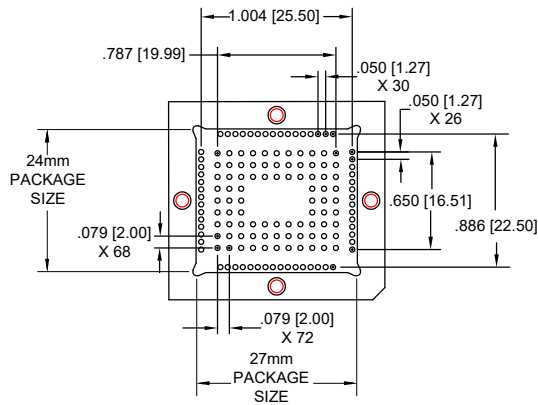
GUIDE & BASE SHOWN



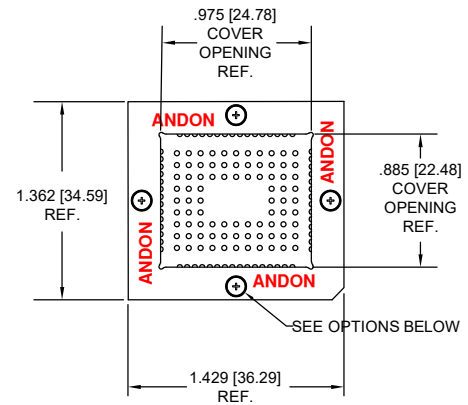
COVER & HARDWARE SHOWN

Fig. 33 258 Pins
Thru-Hole: 694-258-TH-491-R27-L14-1
Surface Mount: 694-258-SM-500-R27-L14-1
Rollerball® : 694-258-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints Units: in [mm]



GUIDE & BASE SHOWN



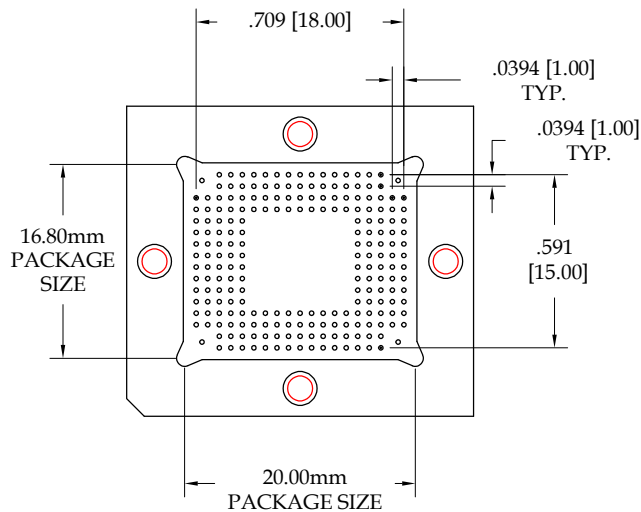
COVER & HARDWARE SHOWN

Fig. 34 LCC 60 Pin / LGA 84 Pin

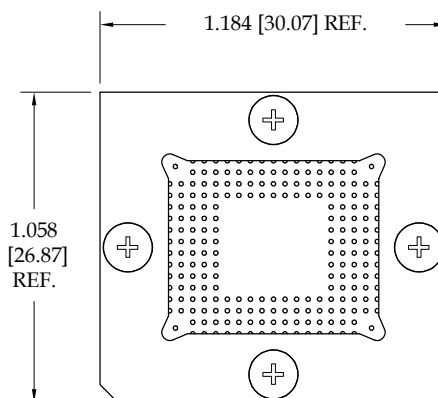
Thru-Hole: 692-144-TH-491-R27-L14-1

Surface Mount: 692-144-SM-500-R27-L14-1

Rollerball® : 692-144-SM-RB593-R27-L14-1



COVER & HARDWARE SHOWN



GUIDE & BASE SHOWN

Fig. 35 220 Pins

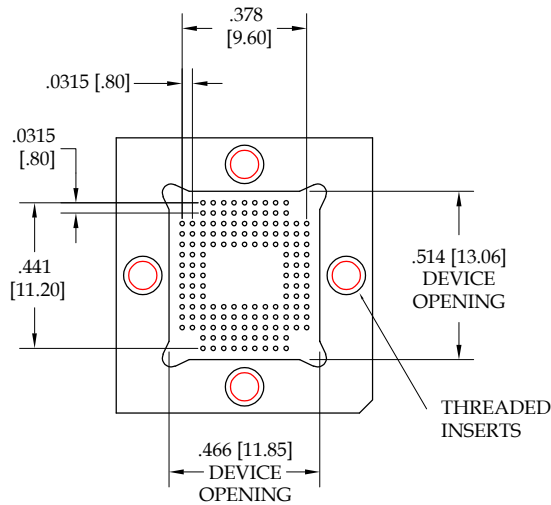
Thru-Hole: 694-220-TH-491-R27-L14-1

Surface Mount: 694-220-SM-500-R27-L14-1

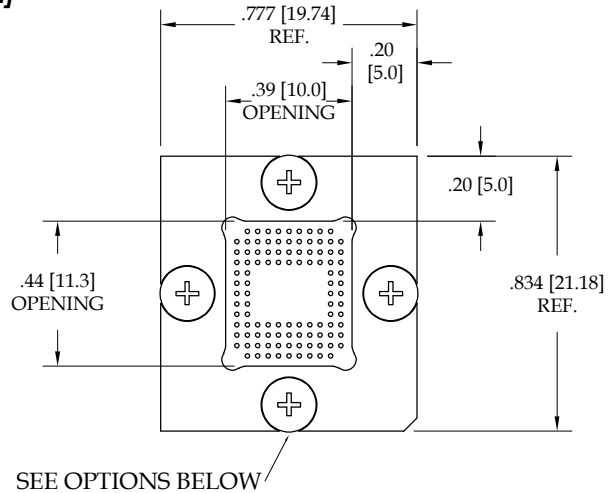
Rollerball® : 694-220-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints

Units: in [mm]

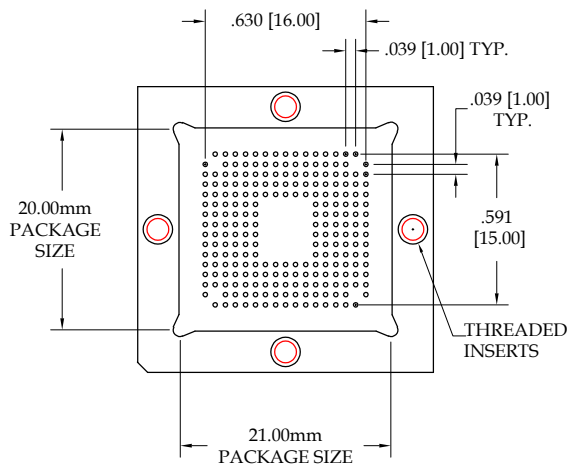


GUIDE & BASE SHOWN

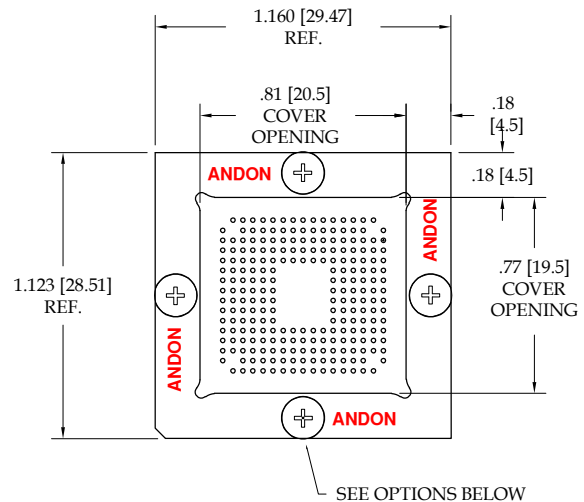


COVER & HARDWARE SHOWN

Fig. 36 **144 Pins**
Thru-Hole: 684-144-TH-491-R27-L14-1
Surface Mount: 684-144-SM-500-R27-L14-1



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 37 **234 Pins**
Thru-Hole: 694-234-TH-491-R27-L14-1
Surface Mount: 694-234-SM-500-R27-L14-1
Rollerball® : 694-234-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints

Units: in [mm]

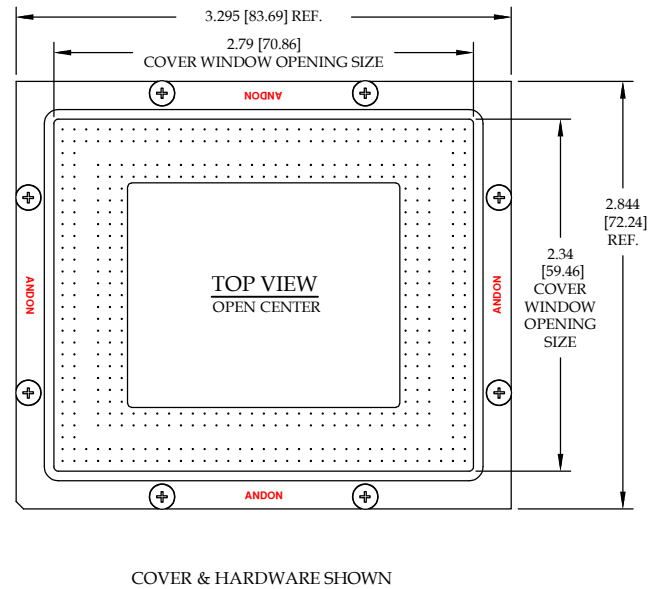
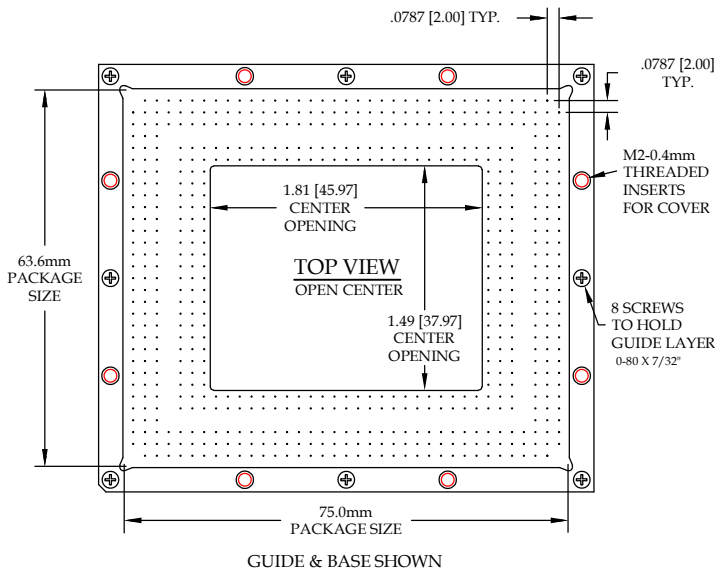


Fig. 38 **598 Pins**
Thru-Hole: 692-598J-TH-491-R27-L14-1
Surface Mount: 692-598J-SM-500-R27-L14-1
Rollerball® : 692-598J-SM-RB593-R27-L14-1

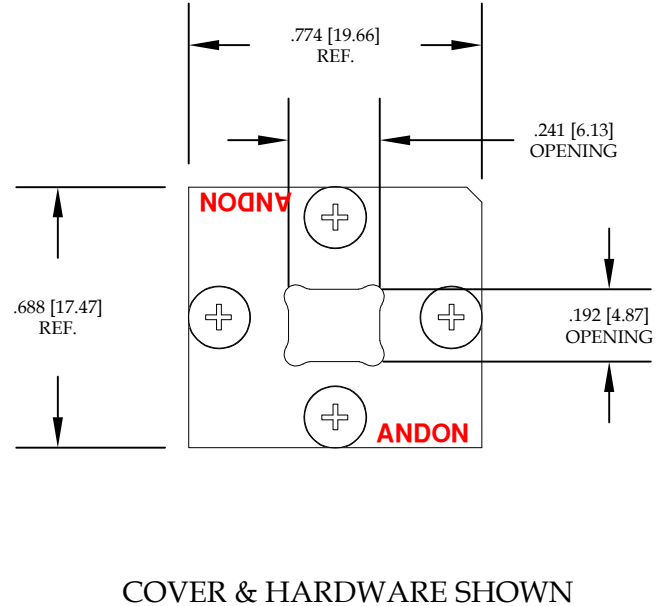
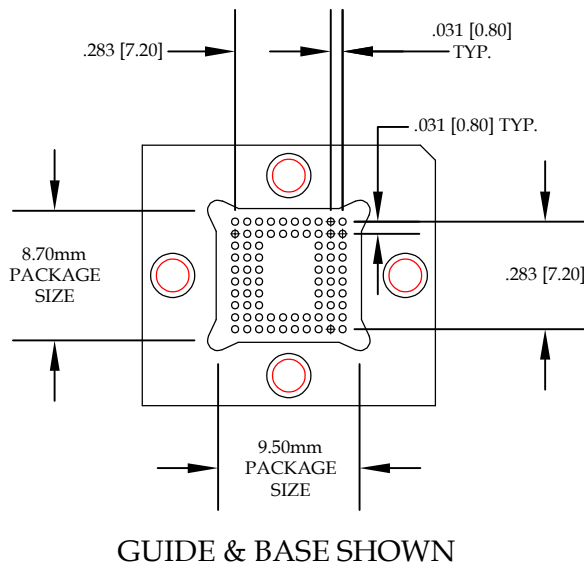
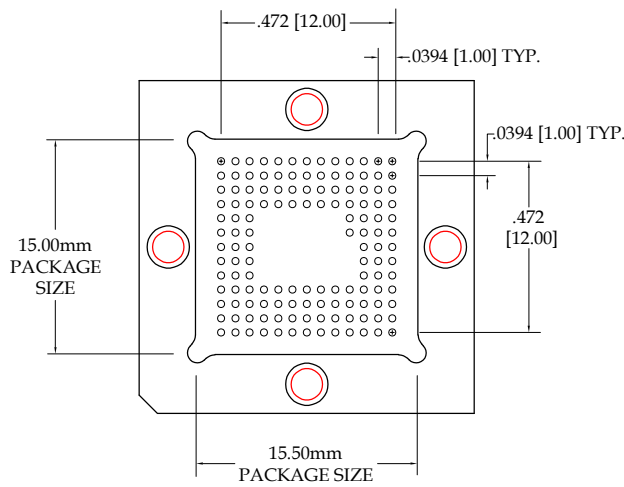


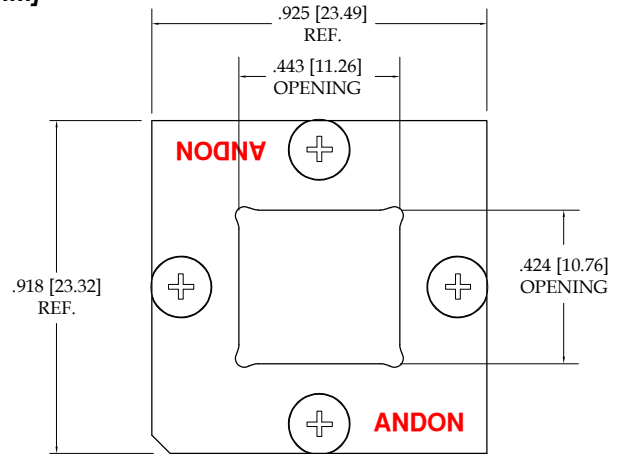
Fig. 39 **72 Pins**
Thru-Hole: 684-072A-TH-491-R27-L14-1
Surface Mount: 684-072A-SM-500-R27-L14-1

SONY Continued Image Sensor Socket Footprints

Units: in [mm]

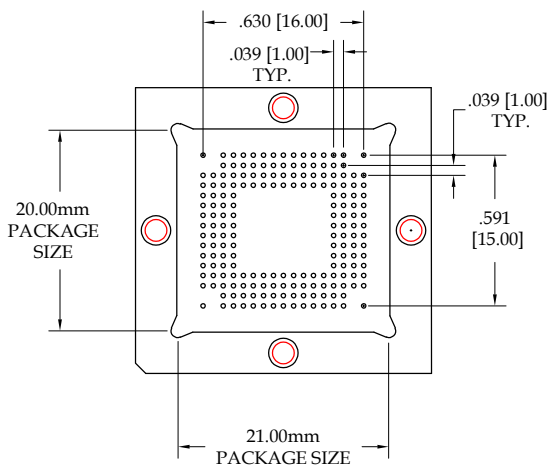


GUIDE & BASE SHOWN

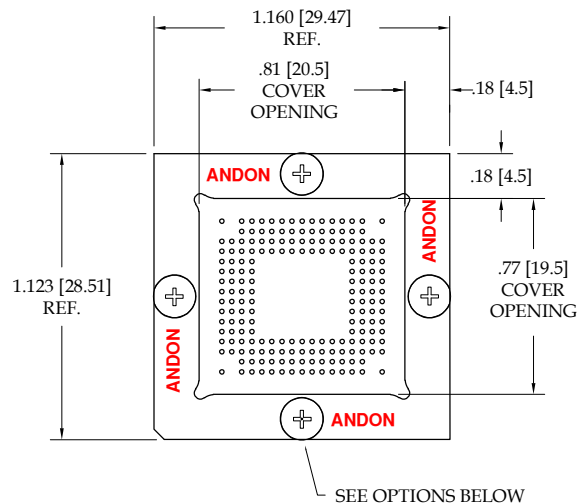


COVER & HARDWARE SHOWN

Fig. 40 136 Pins
Thru-Hole: 694-136-TH-491-R27-L14-1
Surface Mount: 694-136-SM-500-R27-L14-1
Rollerball® : 694-136-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 41 188 Pins
Thru-Hole: 694-188-TH-491-R27-L14-1
Surface Mount: 694-188-SM-500-R27-L14-1
Rollerball® : 694-188-SM-RB593-R27-L14-1

SONY Continued Image Sensor Socket Footprints

Units: in [mm]

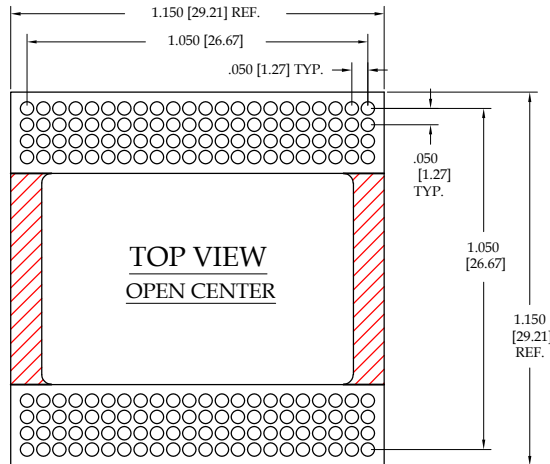


Fig. 42 176 Pins

Thru-Hole: 10-22-18A-176-**274UM**-R27-L14

Surface Mount: 10-22-18A-176-**315UM**-R27-L14

Rollerball® : 10-22-18A-176-**RB338UM**-R27-L14-1

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

9-10-22-18A-176-XXX-R27-L14-SIP

Replace "XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

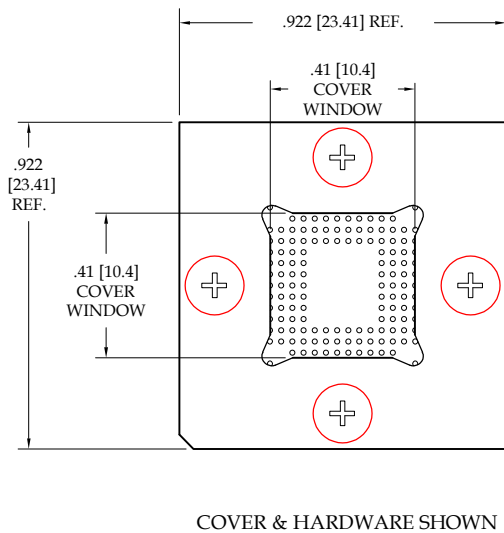
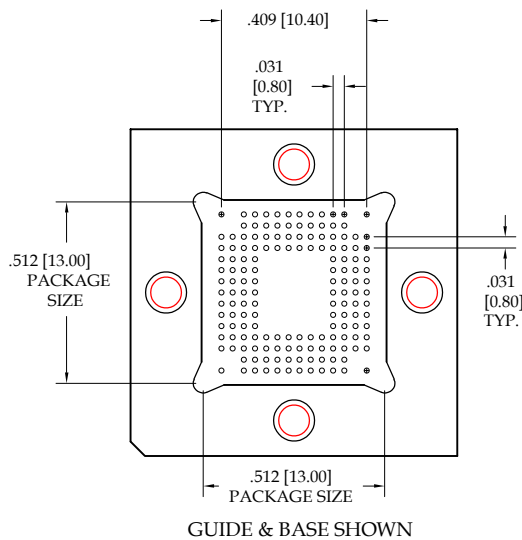


Fig. 43 156 Pins

Thru-Hole: 684-156-TH-**491**-R27-L14-1

Surface Mount: 684-156-SM-**500**-R27-L14-1

SONY Continued

Image Sensor Socket Footprints

Units: in [mm]

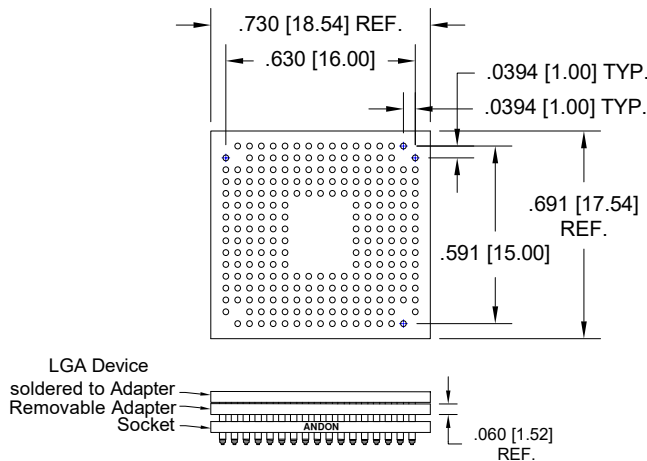


Fig. 44 234 Pins
Thru-Hole: 12-17-04-234-437T-R27-L14
Surface Mount: 12-17-04-234-329T-R27-L14
Adapter: 12-17-04-234-321-G10-L14
Rollerball® : 12-17-04-234-RB339T-R27-L14

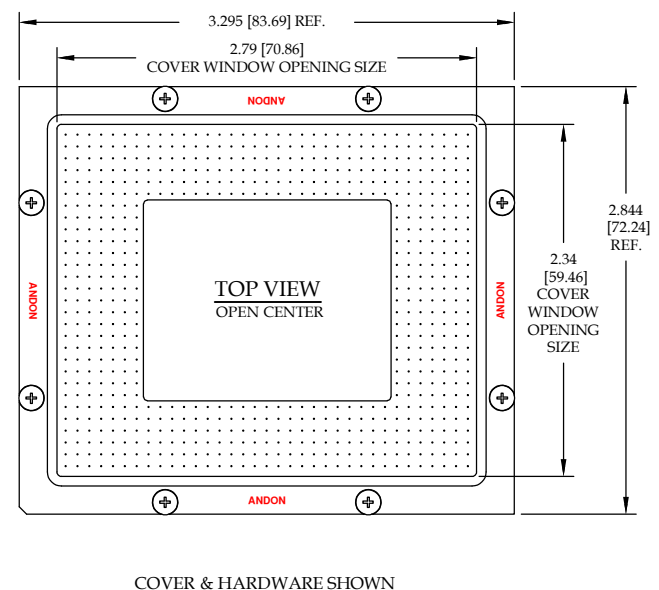
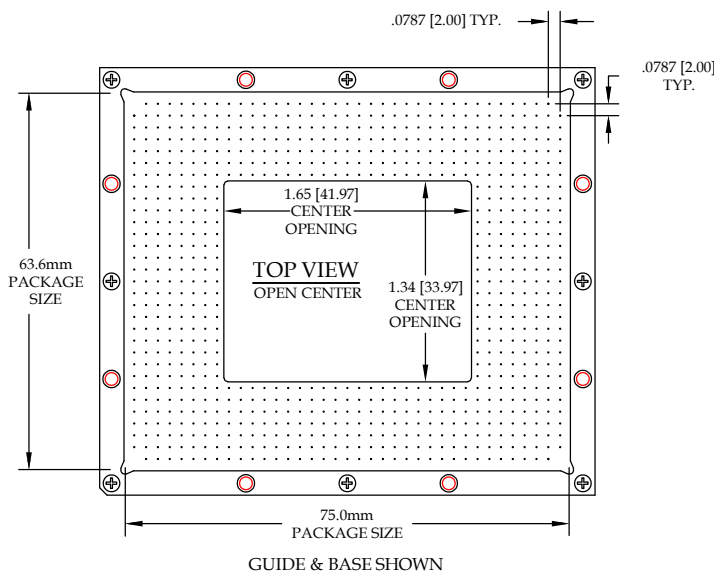
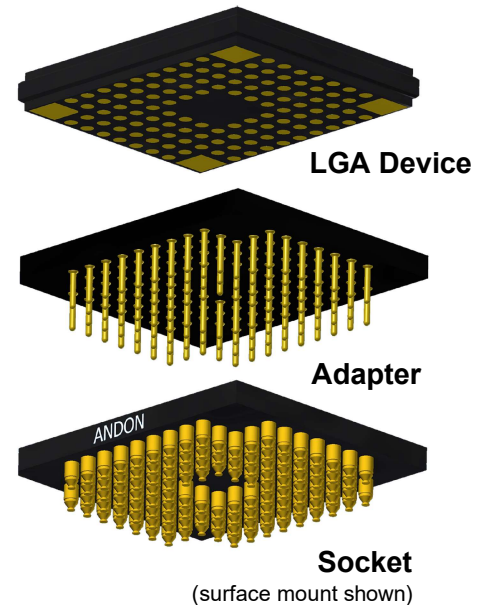


Fig. 45 786 Pins
Thru-Hole: 692-786-TH-491-R27-L14-1
Rollerball® : 692-786-SM-RB593-R27-L14-1

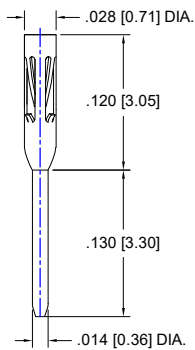
SONY Continued

Image Sensor Socket Terminals

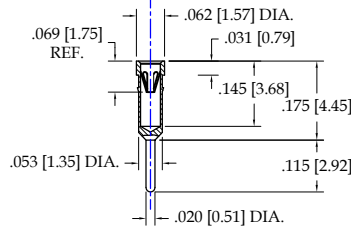
Cross Section View Shown Units: in [mm]

THRU HOLE OPTION

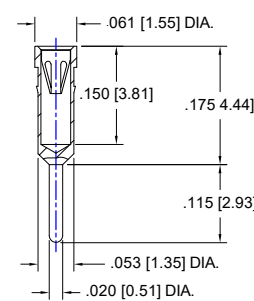
- C4



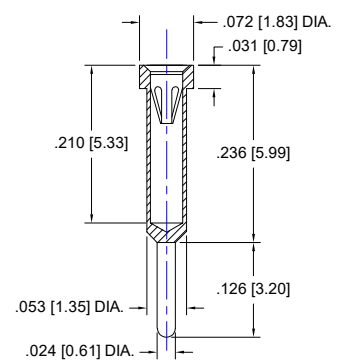
- 75BZ



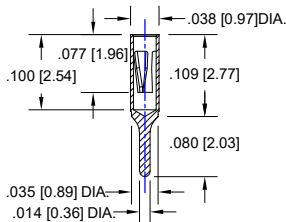
- 75S



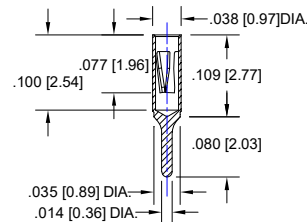
- 80S



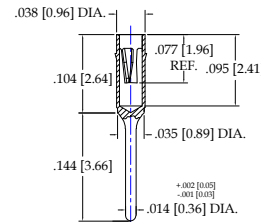
- 274K



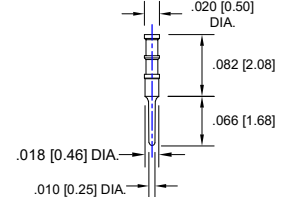
- 274U



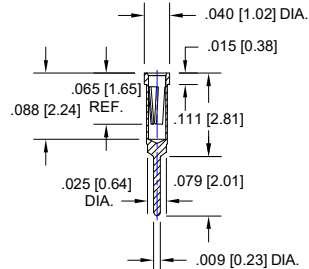
- 284K



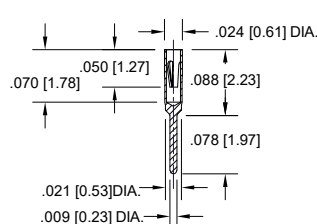
- 321



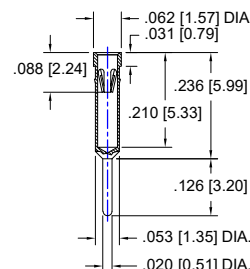
- 400T4



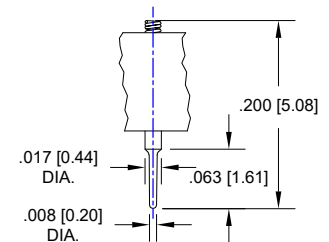
- 437T



- 443M



TH- 491



Technical Information

Material:

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

Plating: RoHS COMPLIANT

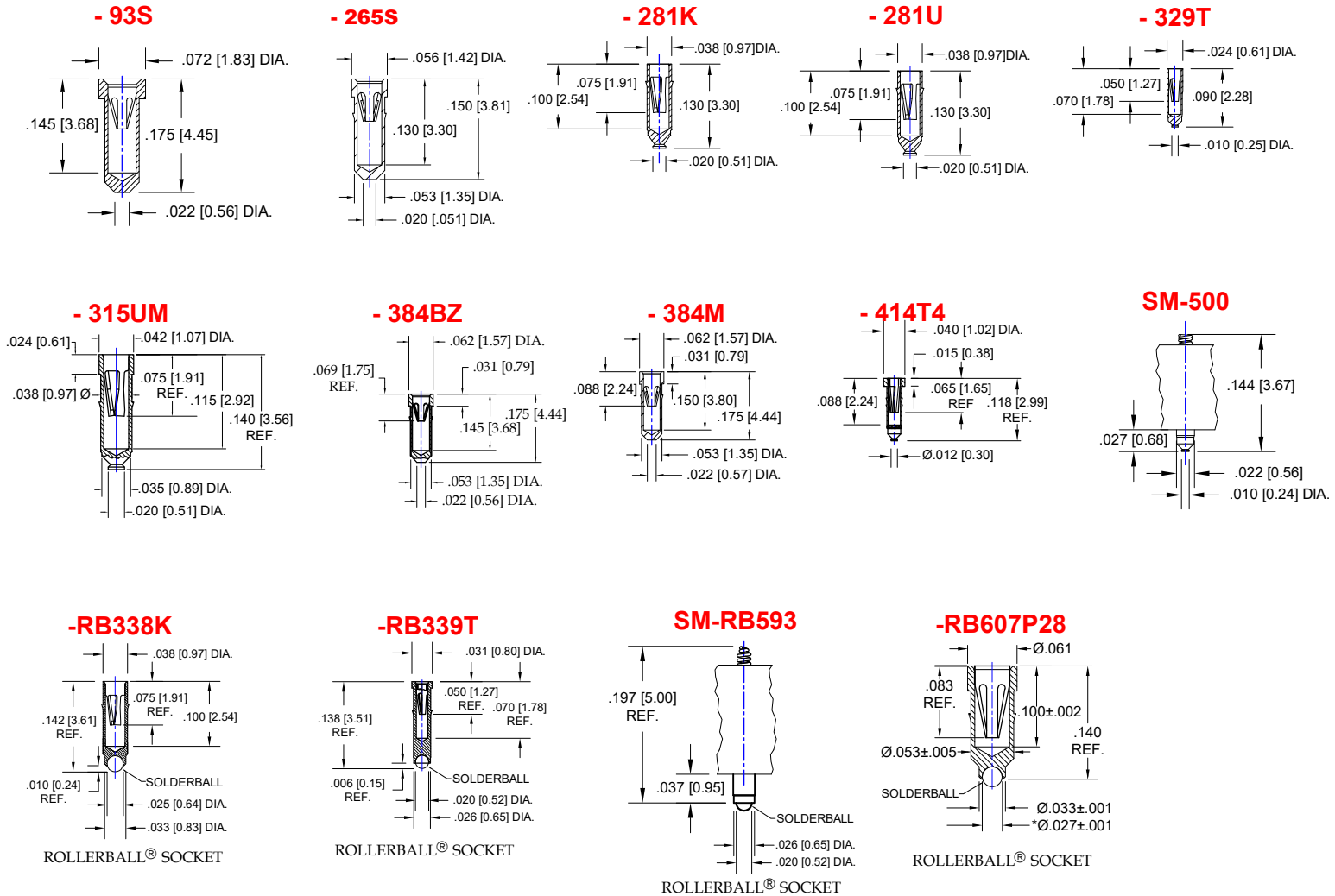
R27 TERMINAL: GOLD / CONTACT: GOLD
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN
OTHER PLATINGS AVAILABLE

SONY Continued

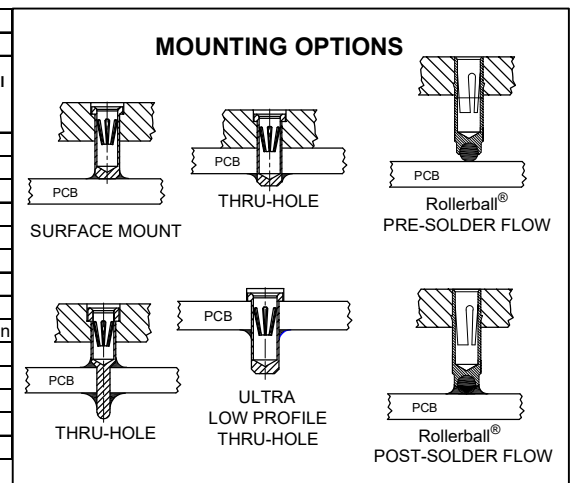
Image Sensor Socket Terminals

Cross Section View Shown Units: in [mm]

SURFACE MOUNT OPTION



Terminal Acceptance and Forces per Contact							
Thru Hole Terminal				Surface Mount Terminal			
Thru Hole Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force	Surface Mount Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force
TH-491	-	-	-	SM-500	-	-	-
-437T	Ø.010 [0.25]	1.0 oz Max	0.3 oz Min	-329T	Ø.010 [0.25]	1.0 oz Max	0.3 oz Min
-400T4	Ø.012 [0.30]	1.1 oz Max	0.3 oz Min	-414T4	Ø.012 [0.30]	1.1 oz Max	0.3 oz Min
-C4	Ø.014 [0.36]	1.5 oz Max	0.35 oz Min	SM-RB593	-	-	-
-274U	Ø.018 [0.46]	2.8 oz Max	0.5 oz Min	-281U	Ø.018 [0.46]	2.8 oz Max	0.5 oz Min
-443M	Ø.018 [0.46]	1.6 oz Max	0.5 oz Min	-384M	Ø.018 [0.46]	1.6 oz Max	0.5 oz Min
-274K	Ø.018 [0.46]	1.0 oz Max	0.5 oz Min	-281K	Ø.018 [0.46]	1.0 oz Max	0.5 oz Min
-75S	Ø.018 [0.46]	9.0 oz Max	2.0 oz Min	-265S	Ø.018 [0.46]	9.0 oz Max	2.0 oz Min
-75BZ	Ø.017 [0.44]	4.2 oz Max	0.71 oz Min	-384BZ	Ø.017 [0.44]	4.2 oz Max	0.71 oz Min
-80S	Ø.018 [0.46]	9.0 oz Max	2.0 oz Min	-93S	Ø.018 [0.46]	9.0 oz Max	2.0 oz Min
-284K	Ø.018 [0.46]	1.0 oz Max	0.5 oz Min	-281K	Ø.018 [0.46]	1.0 oz Max	0.5 oz Min
				-RB338K	Ø.018 [0.46]	1.6 oz Max	0.5 oz Min
				-RB339T	Ø.010 [0.25]	1.0 oz Max	0.3 oz Min
				-RB607P28	Ø.018 [0.46]	1.0 oz Max	0.5 oz Min



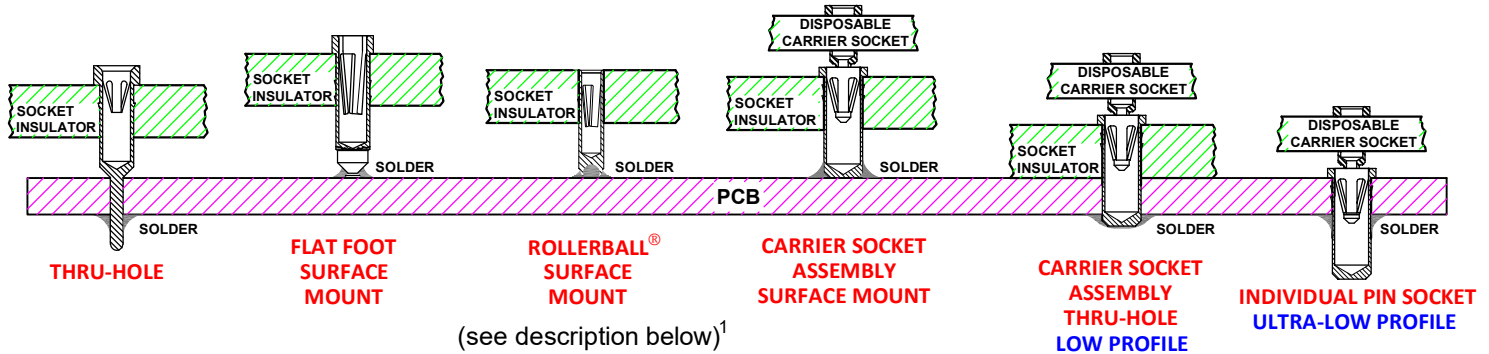
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Rollerball® U.S. PATENTED
CANADIAN PATENTED

"ANDON PROPRIETARY INFORMATION"
RoHS Compliant

*Sockets are not drawn to scale SONY 03/25/2024

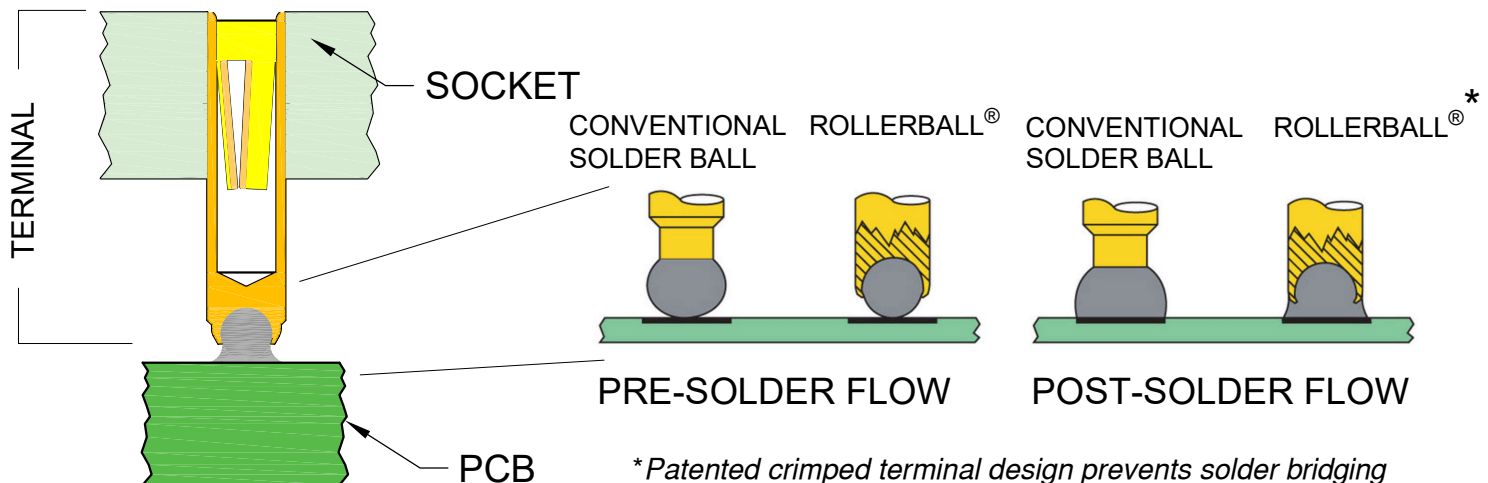
Socket & Terminal Options



¹Andon'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

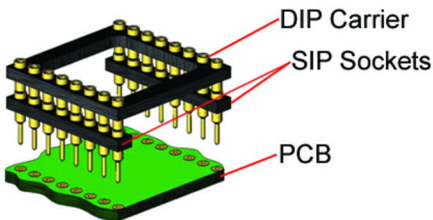
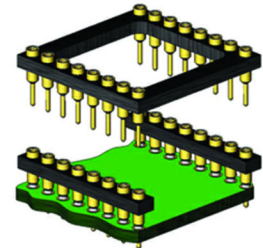
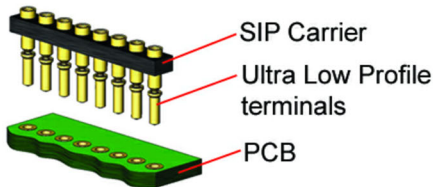
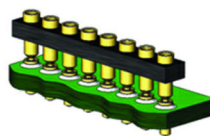
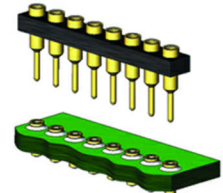
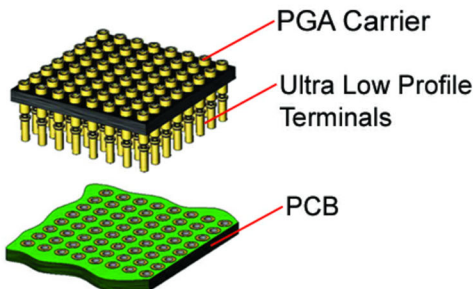
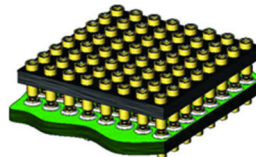
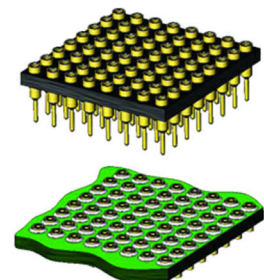
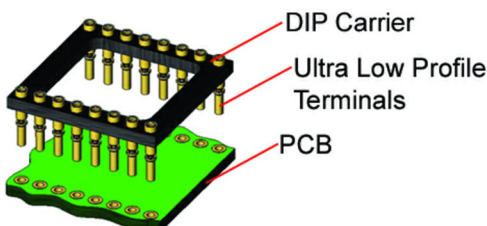
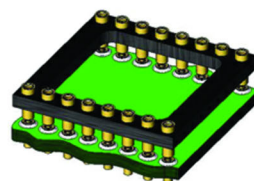
Phase 1:
Receive Carrier Assemblies
designed to your pin layout.



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**