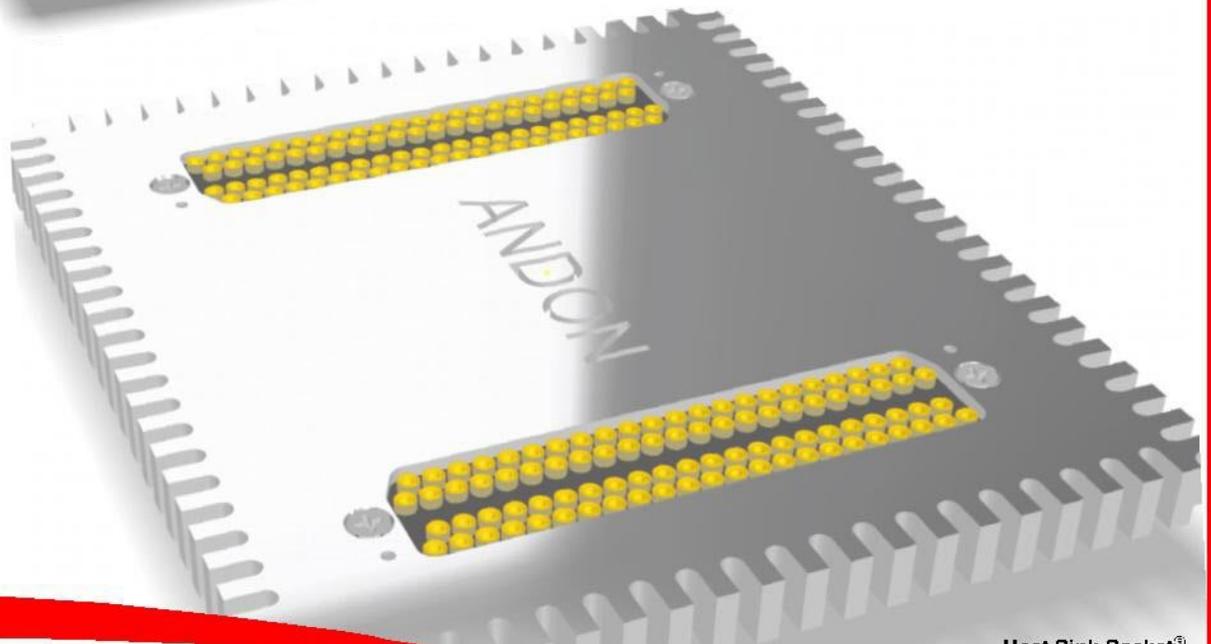
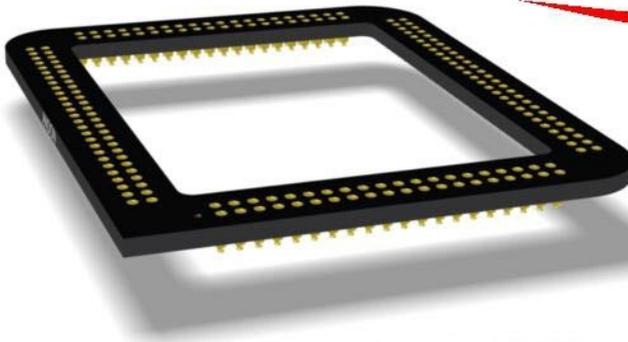




High-Reliability Image Sensor Sockets for CANON



Featuring Andon's Unique Senstac[®] Contact Heat Sink Socket[®]
PATENTED

CANON							
CANON Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball®			
120MXS	24-00661-188-XXX-R27-L14	284K	281K	RB338K	.018	2	2
35MMFHDXS	IS236D-00672-180-XXX-R27-L14	75M	384M	RB338K	.018	1	1
3U5MGXS	698-180-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	3	2
L15030SA	662-00673-SM-G10-R27-L14	-	-	-	-	8	5
LI1050SA	662-170-SM-G10-L14-1	-	-	-	-	7	4
LI3030SA	IS236D-00672-180-XXX-R27-L14	75M	384M	RB338K	.018	1	1
LI5040	698-180-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	3	2
LI7030SA	678-154-XX-XXX-R27-L14	TH-491	SM-500	-	-	6	4
LI7050	694-94-XX-XXX-R27-L14	TH-491	SM-500	-	-	4	3
LI7060SA	694-94A-XX-XXX-R27-L14	TH-491	SM-500	-	-	5	3
LI7070SA	694-94-XX-XXX-R27-L14	TH-491	SM-500	-	-	4	3
LI7080SA	662-170-SM-G10-L14-1	-	-	-	-	7	4

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

Patented Heat Sink Sockets® (socket with heat sink feature)

CANON							
CANON Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball®			
35MMFHDXS	IS236D-00672-180-75M-R27-L14-HS1	75M	-	-	.018	10	6
120MXS	24-00661-188-XXX-R27-L14-HS1	284K	-	-	.018	9	6
L13030SA	IS236D-00672-180-75M-R27-L14-HS1	75M	-	-	.018	10	6

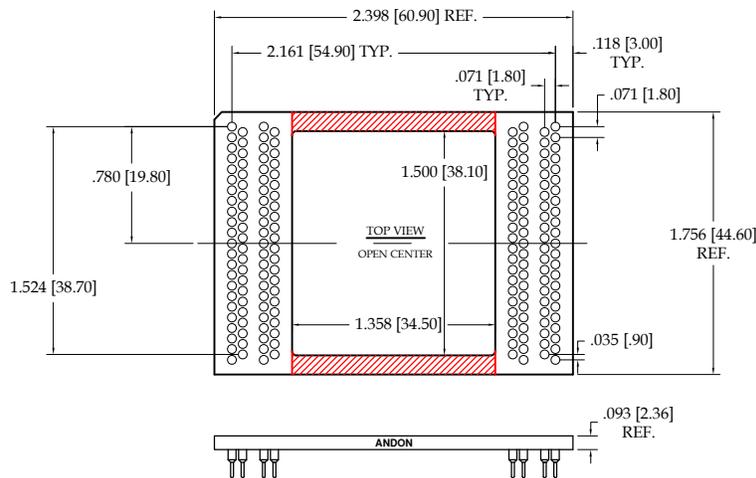


Fig. 1 180 Pins

Thru-Hole: IS236D-00672-180-75M-R27-L14

Surface Mount: IS236D-00672-180-384M-R27-L14

Rollerball®: IS236D-00672-180-RB338K-R27-L14

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

9-IS236D-00672-180-XXX-R27-L14-SIP

Replace "-XXX" with choice of terminal

See last page for other Carrier Assembly configurations.

CANON Continued

Image Sensor Socket Footprints

Units: in [mm]

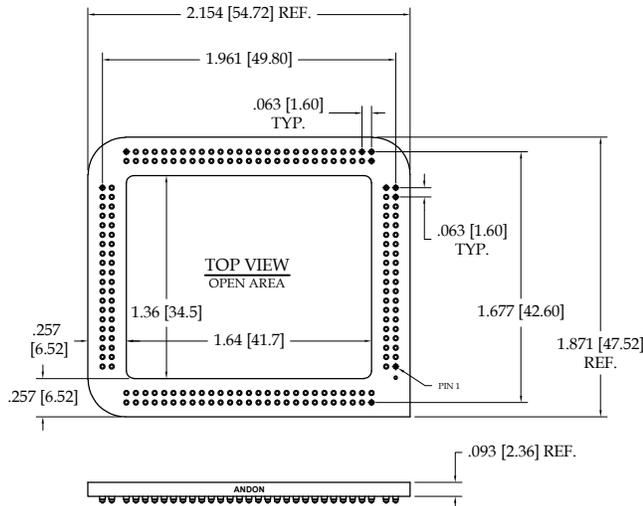


Fig. 2 188 Pins
Thru-Hole: 24-00661-188-284K-R27-L14
Surface Mount: 24-00661-188-281K-R27-L14
Rollerball® : 24-00661-188-RB338K-R27-L14

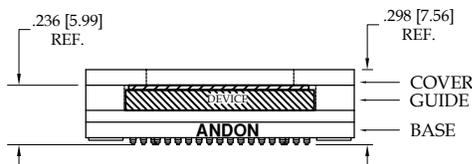
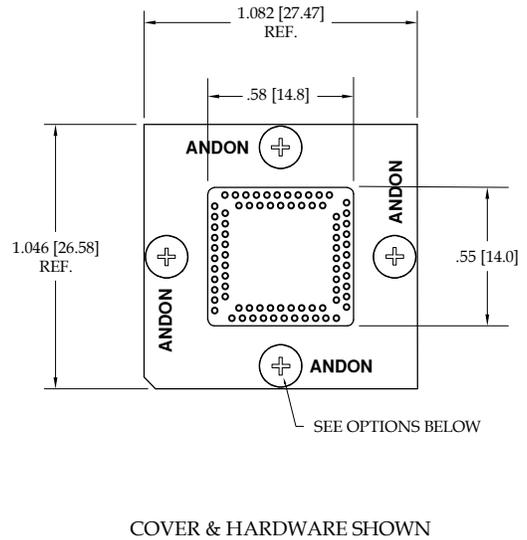
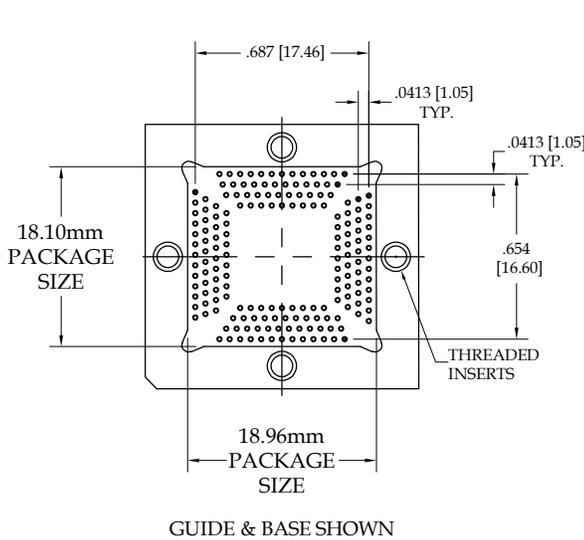


Fig. 3 180 Pins
Thru-Hole: 698-180-TH-491-R27-L14-1
Surface Mount: 698-180-SM-500-R27-L14-1
Rollerball® : 698-180-SM-RB593-R27-L14-1

©Copyright 2025 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

RoHS Compliant
Andon Proprietary Information

*Sockets are not drawn to scale CANON 02/11/2025

CANON Continued Image Sensor Socket Footprints

Units: in [mm]

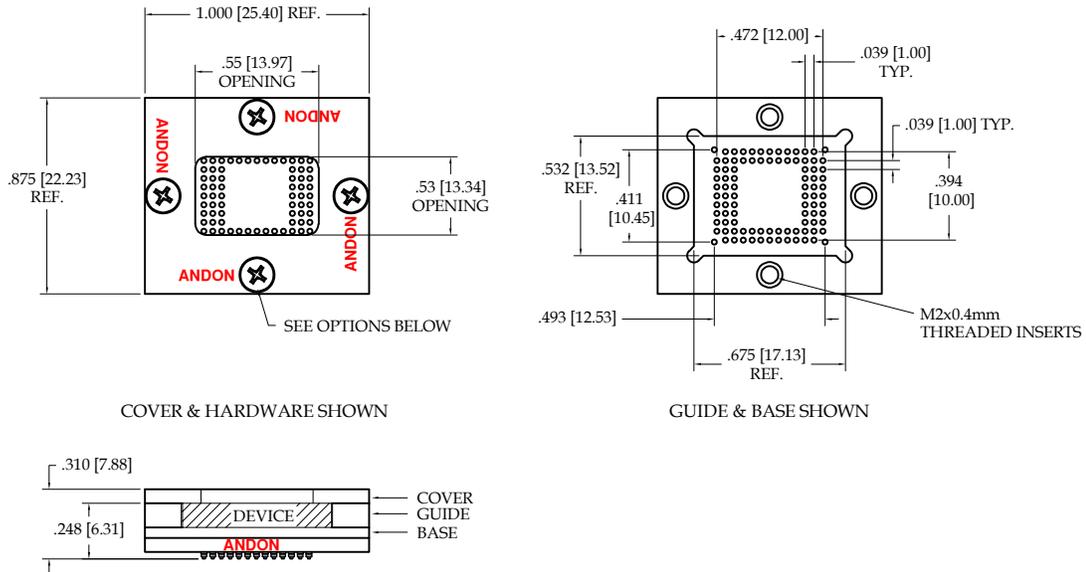


Fig. 4 94 Pins
Thru-Hole: 694-94-TH-491-R27-L14
Surface Mount: 694-94-SM-500-R27-L14
Rollerball® : N/A

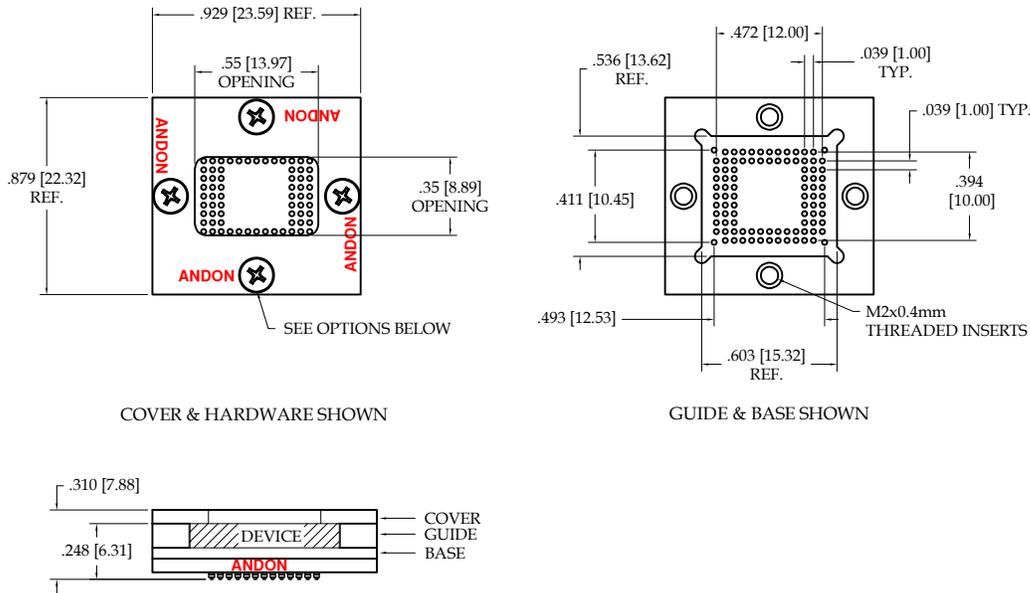
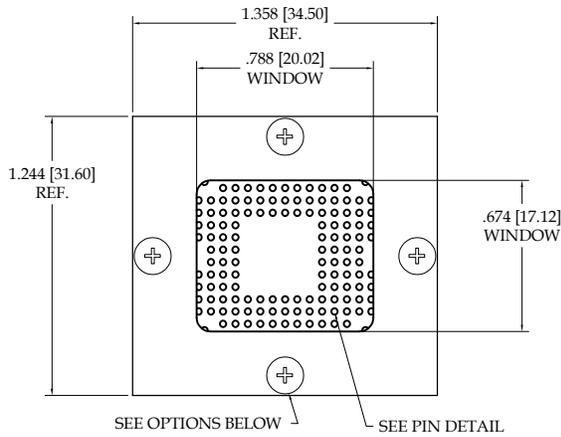


Fig. 5 94 Pins
Thru-Hole: 694-94A-TH-491-R27-L14
Surface Mount: 694-94A-SM-500-R27-L14
Rollerball® : N/A

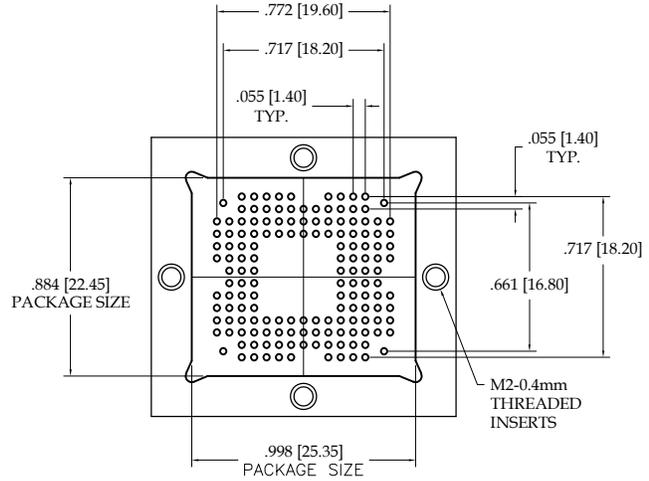
CANON Continued

Image Sensor Socket Footprints

Units: in [mm]



COVER & HARDWARE SHOWN



GUIDE & BASE SHOWN

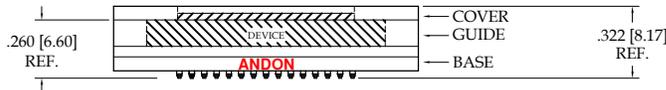


Fig. 6 **154 Pins**
Thru-Hole: 678-154-TH-491-R27-L14-1
Surface Mount: 678-154-SM-500-R27-L14-1
Rollerball® : N/A

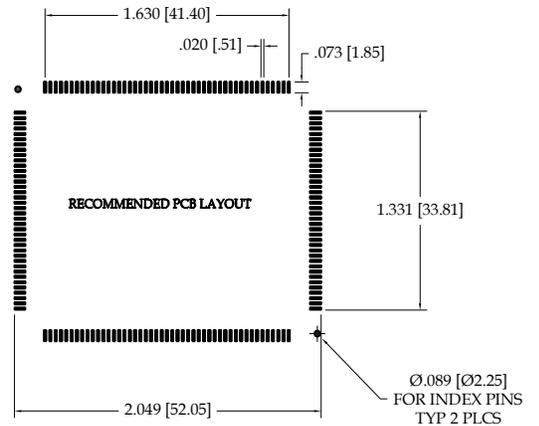
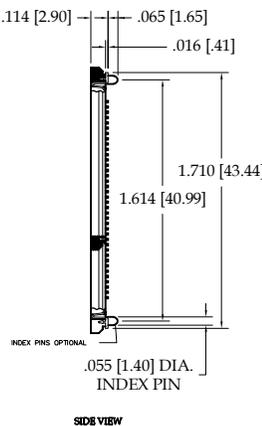
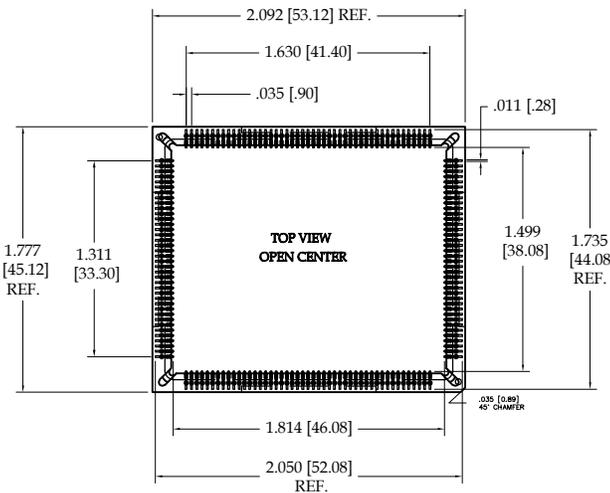


Fig. 7 **170 Pins**
Surface Mount: 662-170-SM-G10-R27-L14-1

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

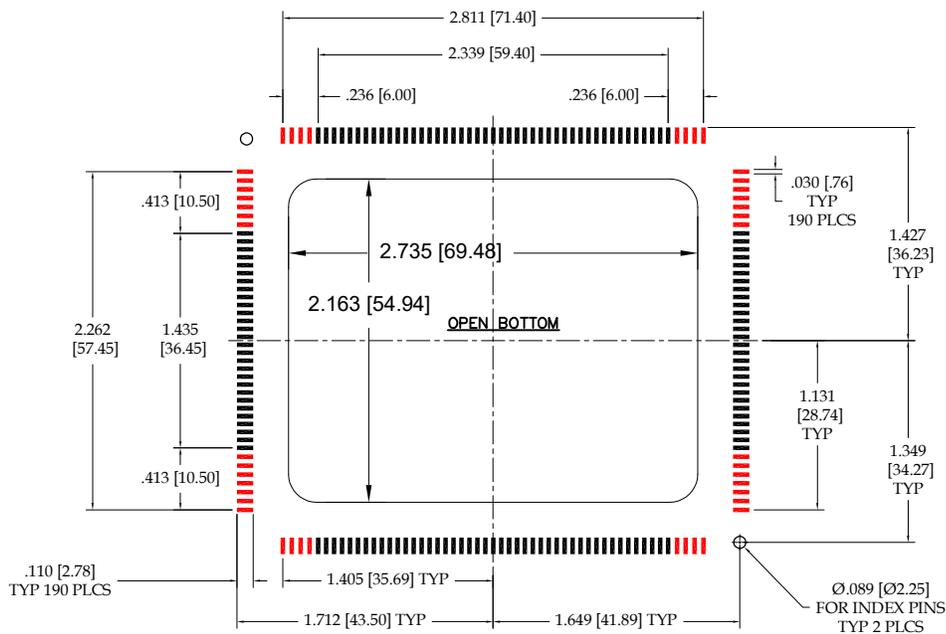
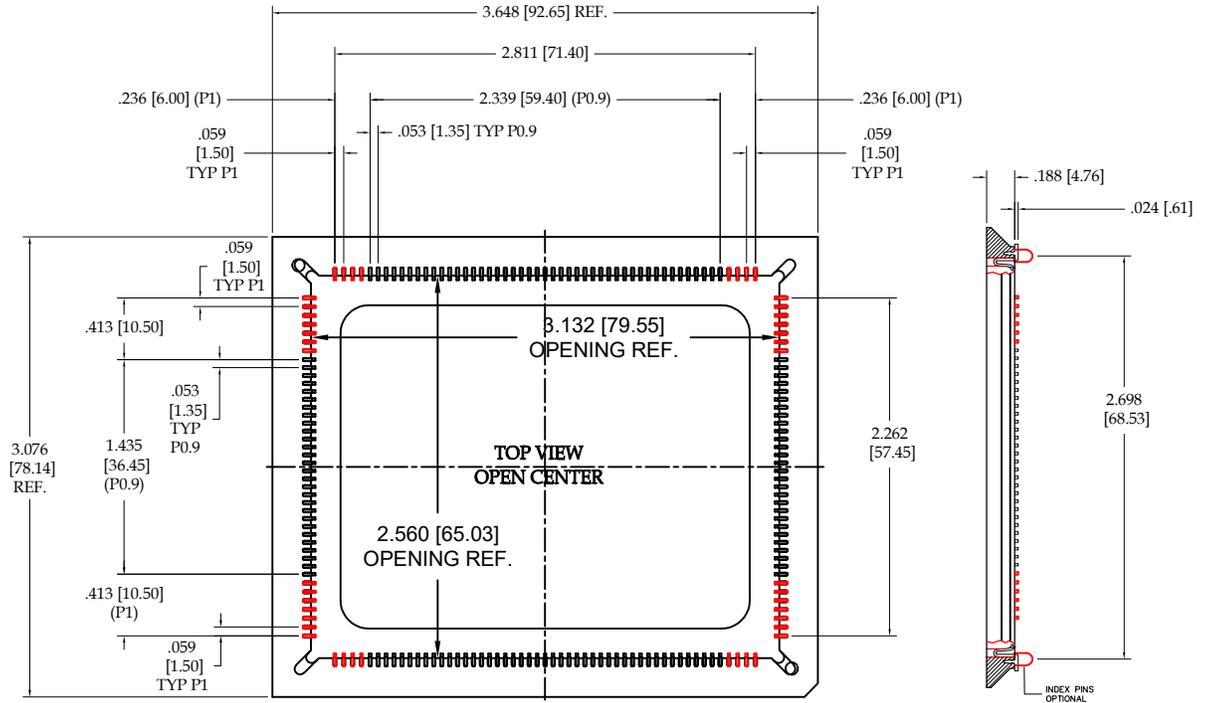


Fig. 8 182 Pins
Surface Mount: 662-00673-SM-G10-R27-L14-1

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

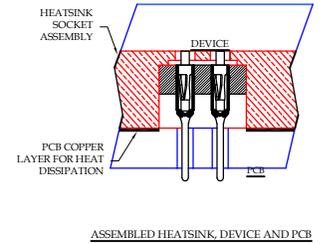
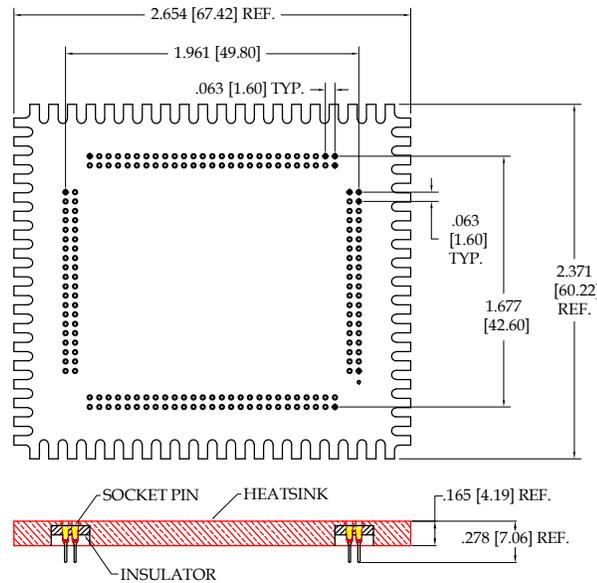


Fig. 9
Thru-Hole: 24-00661-188-284K-R27-L14-HS1

PATENTED

PATENTED

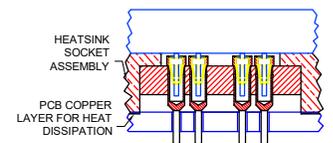
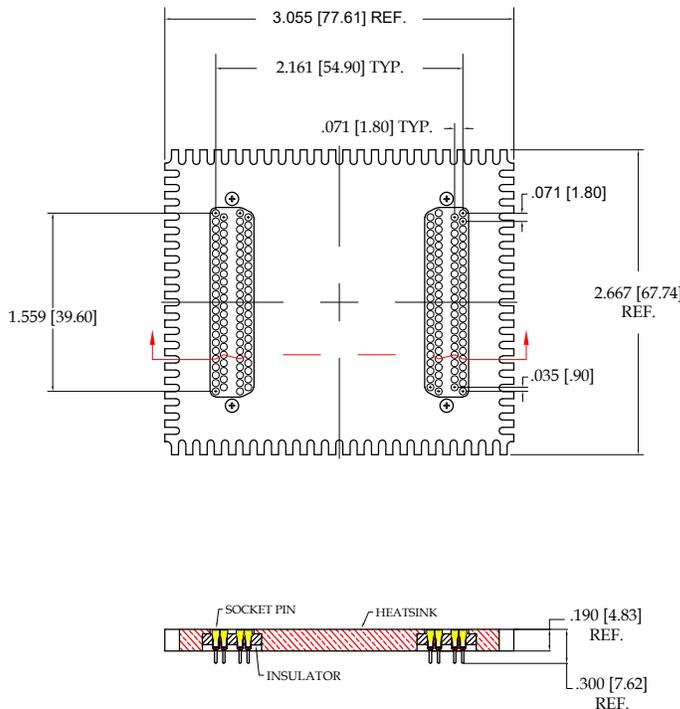


Fig. 10
Thru-Hole: IS236D-00672-180-75M-R27-L14-HS1

©Copyright 2025 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

RoHS Compliant
Andon Proprietary Information

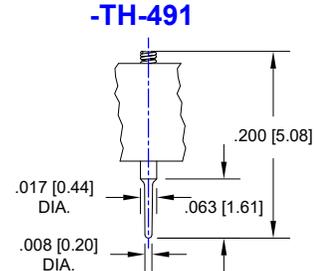
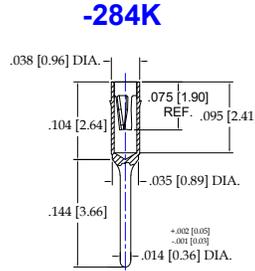
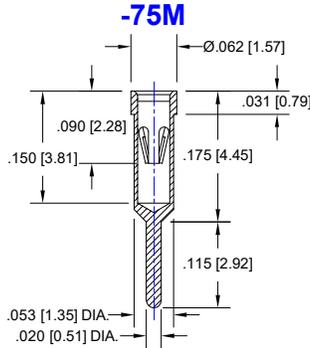
*Sockets are not drawn to scale CANON 02/11/2025

CANON Continued

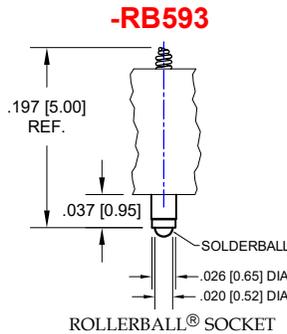
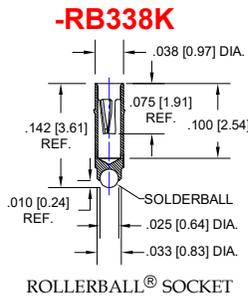
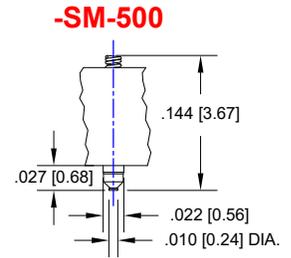
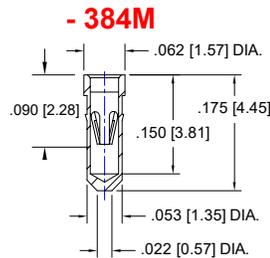
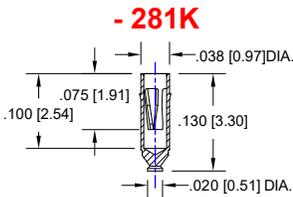
Image Sensor Terminal Options

Units: in [mm]

THRU HOLE OPTION



SURFACE MOUNT OPTION



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

Technical Information

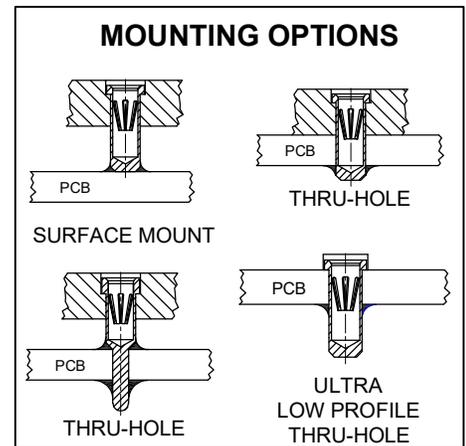
Plating: RoHS COMPLIANT
R27 TERMINAL: GOLD / CONTACT: GOLD
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN
OTHER PLATINGS AVAILABLE

Material:

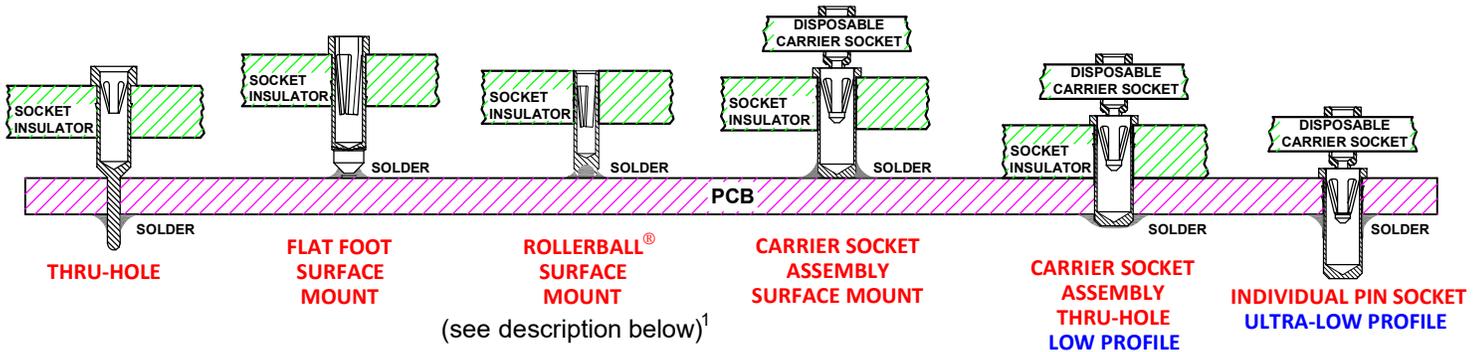
Insulator: Hi-Temp UL 94V-O
Terminal: Brass, per ASTM-B16
Contact: BeCu, Per ASTM-B194

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
-284K	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min	-281K	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min
-TH-491	-	-	-	-SM-500	-	-	-
-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
				-RB338K	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min
				-RB593	-	-	-



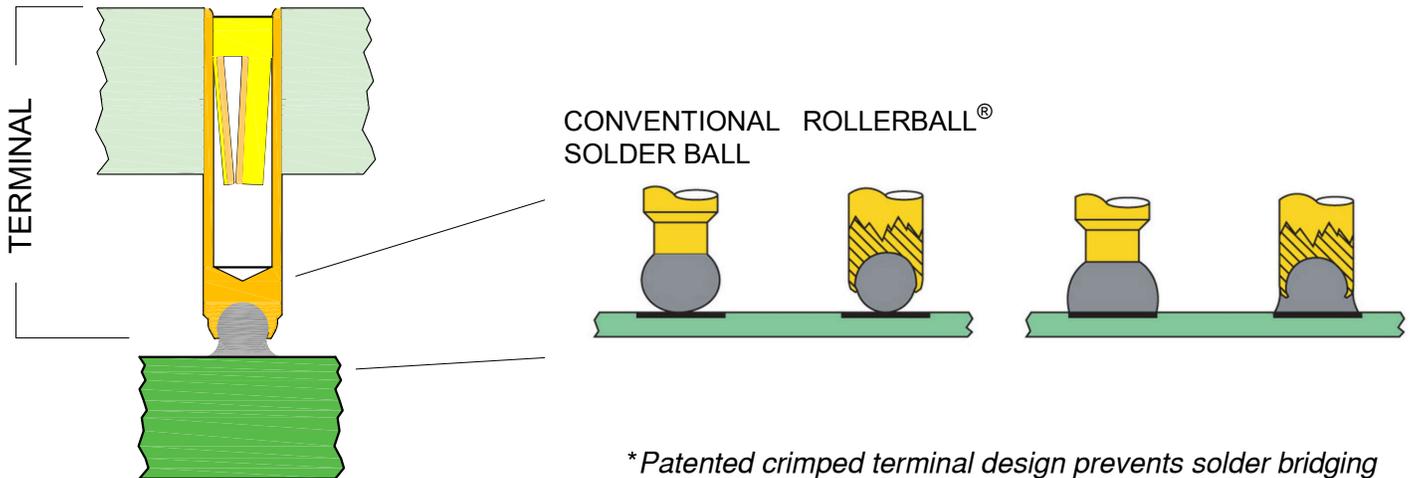
©Copyright 2025 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.



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.



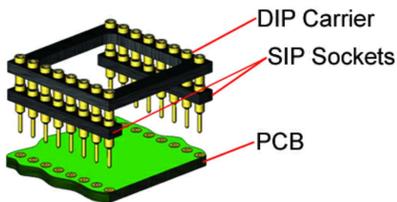
Phase 2:
Place carrier assemblies onto PCB; run through your soldering process.



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

DIP

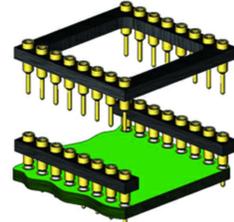
Before Soldering



During Soldering

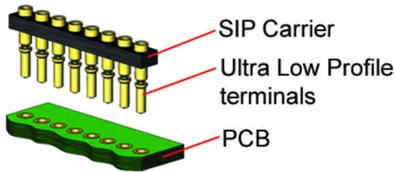


After Soldering

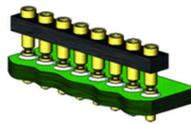


ULTRA-LOW PROFILE SIP

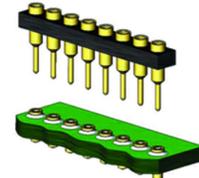
Before Soldering



During Soldering

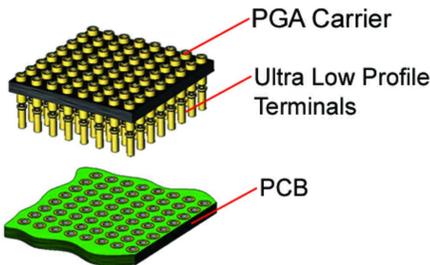


After Soldering

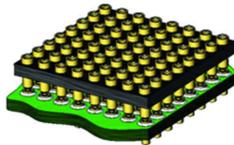


ULTRA-LOW PROFILE PGA

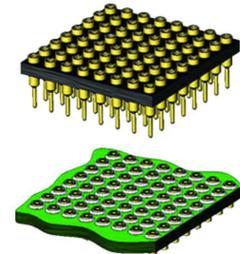
Before Soldering



During Soldering

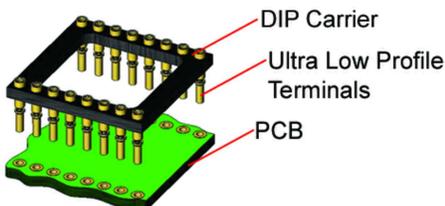


After Soldering

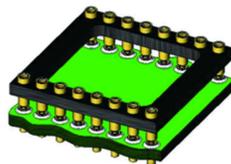


ULTRA LOW PROFILE DIP

Before Soldering



During Soldering



After Soldering

