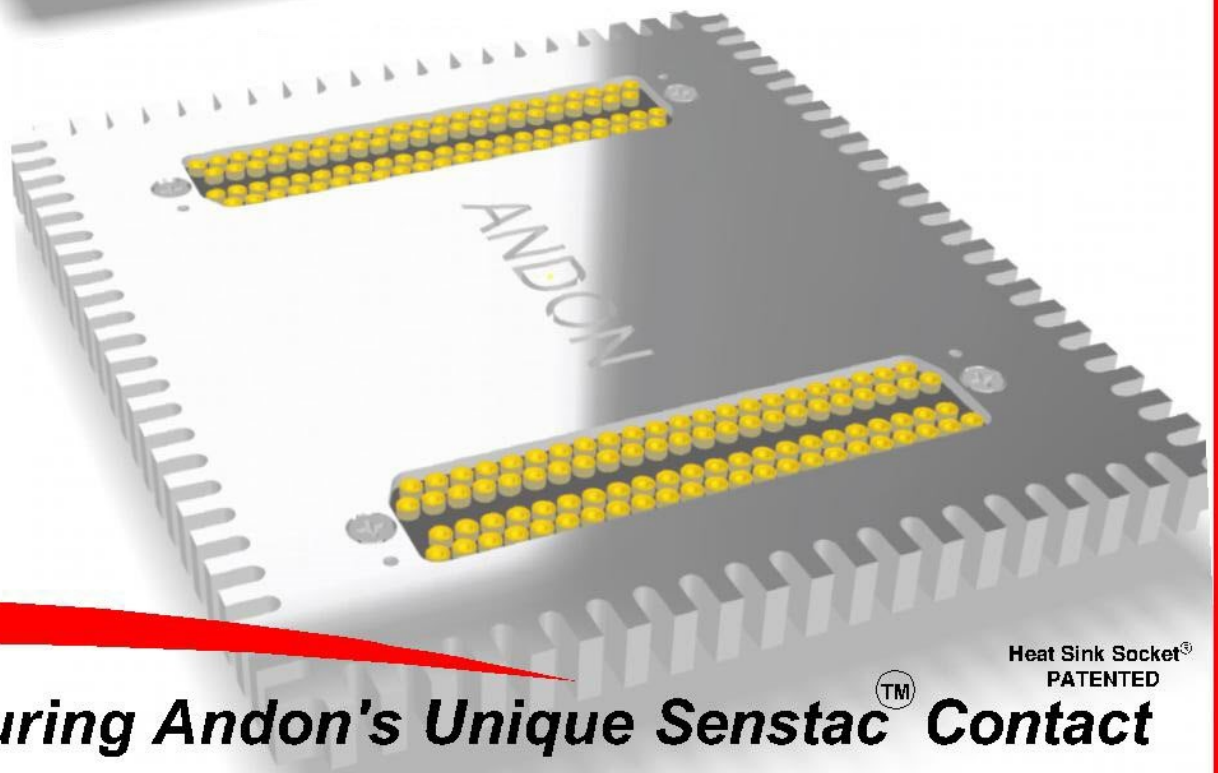
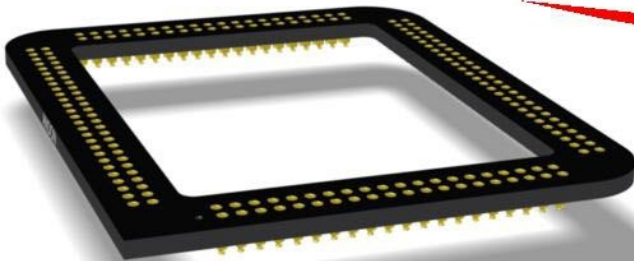




# *High-Reliability Image Sensor Sockets for CANON*



Heat Sink Socket<sup>®</sup>  
PATENTED

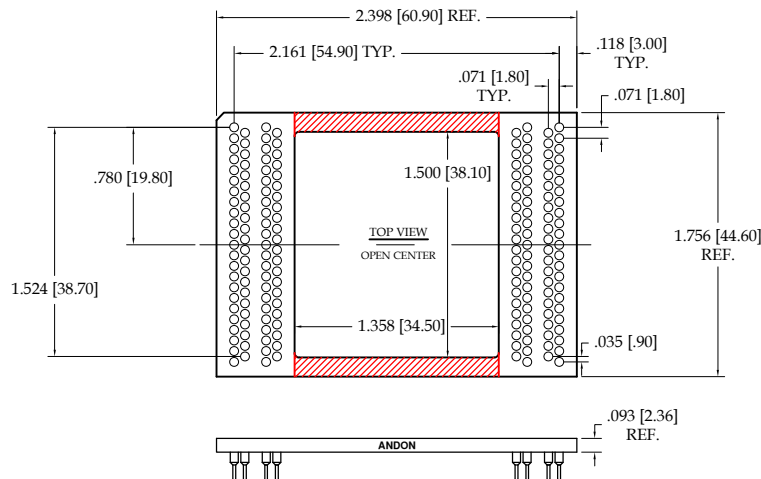
*Featuring Andon's Unique Senstac<sup>™</sup> Contact*

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

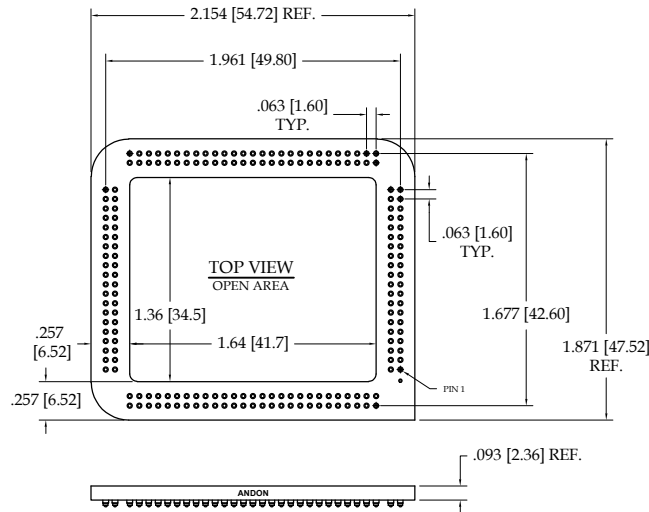
Replace "-XXX" with  
choice of terminal

See last page for other Carrier Assembly configurations.

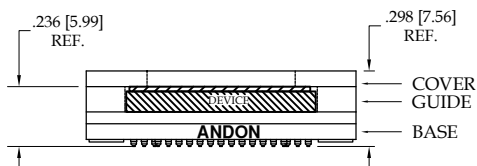
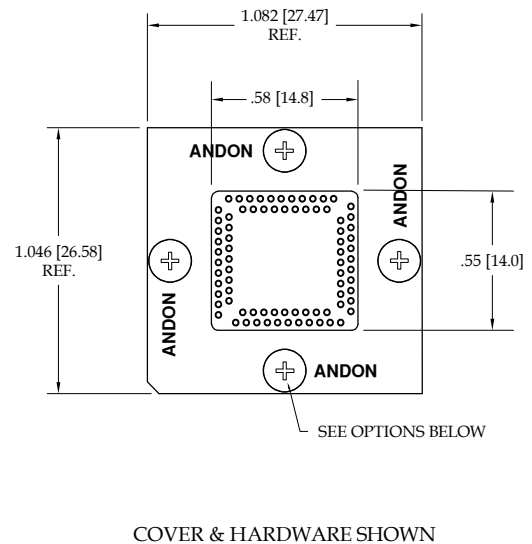
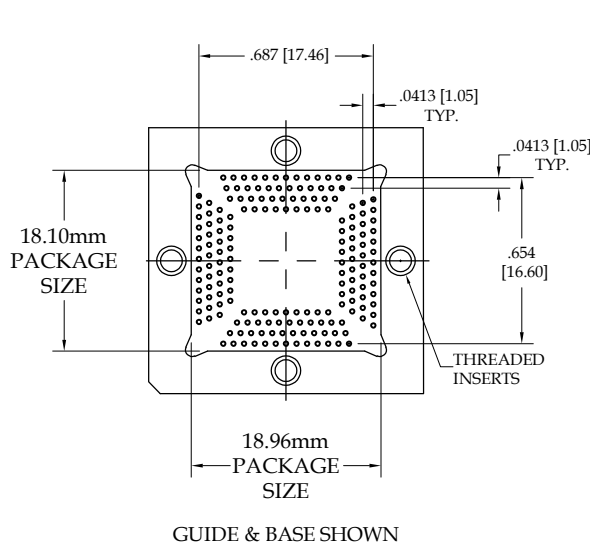
## CANON Continued

### 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

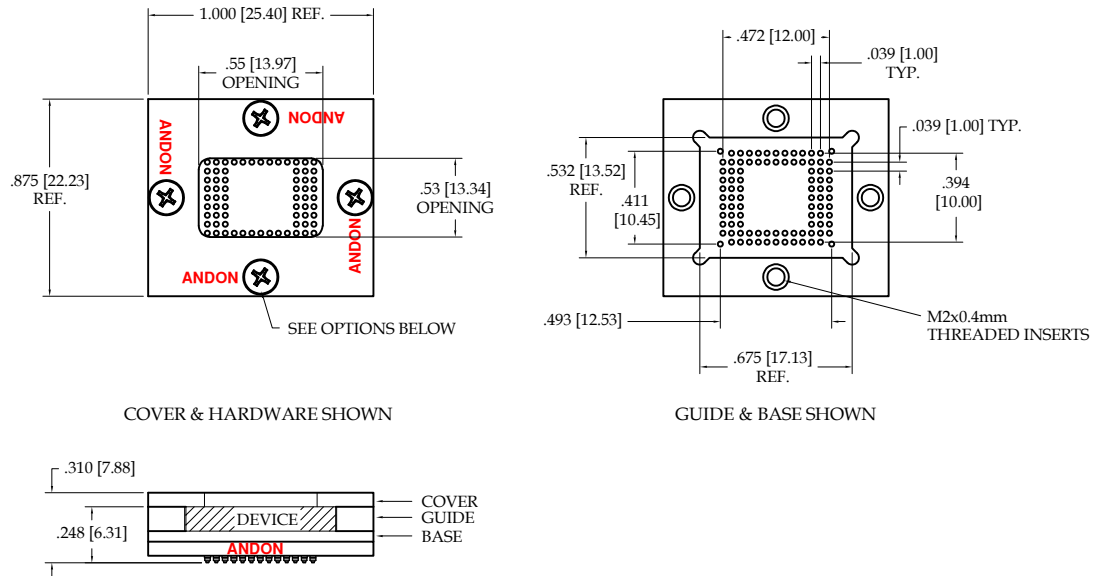


**Fig. 3 180 Pins**  
**Thru-Hole:** 698-180-TH-**491**-R27-L14-1  
**Surface Mount:** 698-180-SM-**500**-R27-L14-1  
**Rollerball®:** 698-180-SM-**RB593**-R27-L14-1

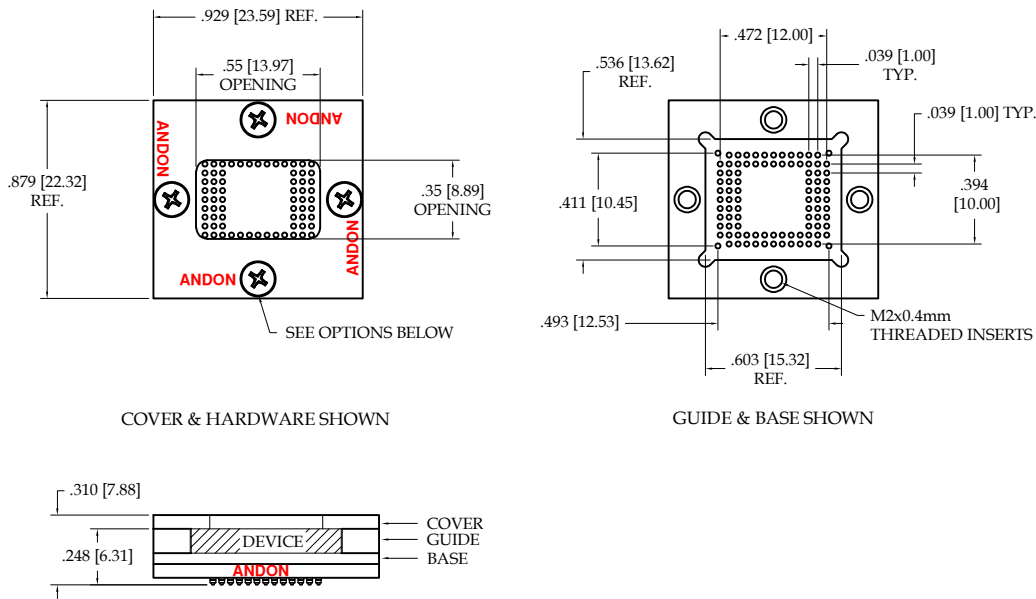
## CANON Continued

### 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

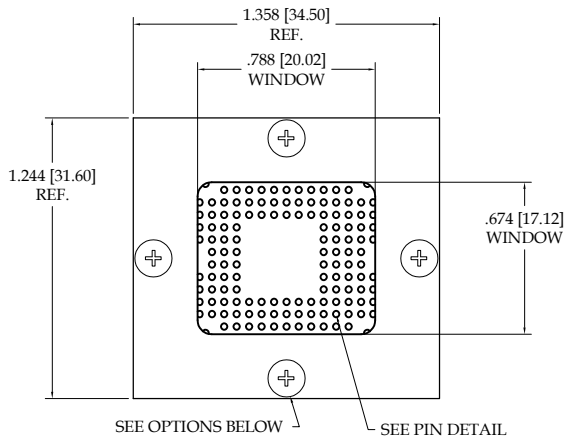


**Fig. 5 94 Pins**  
**Thru-Hole:** 694-94A-TH-491-R27-L14  
**Surface Mount:** 694-94A-SM-500-R27-L14  
**Rollerball® :** N/A

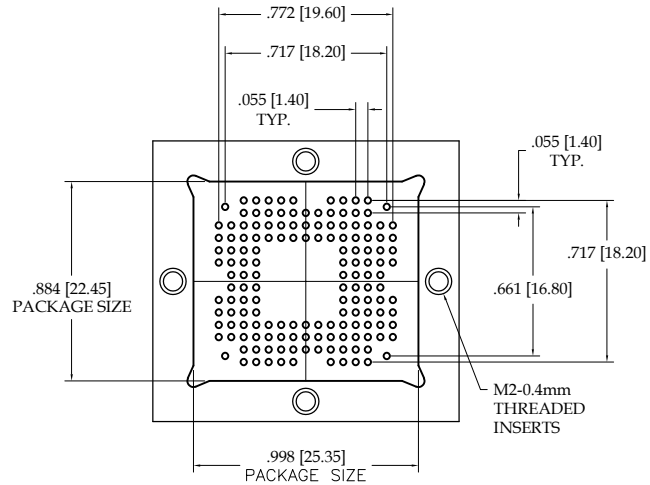
## CANON Continued

### Image Sensor Socket Footprints

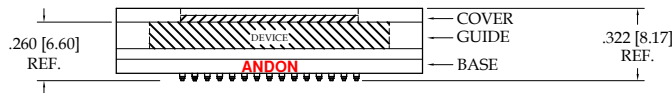
Units: in [mm]



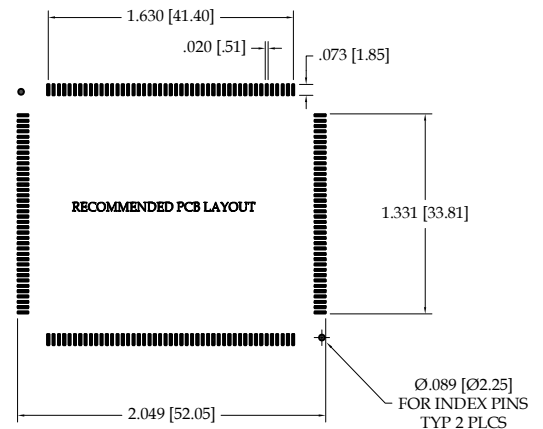
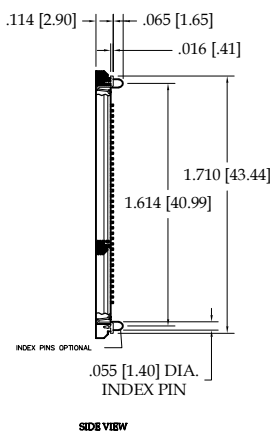
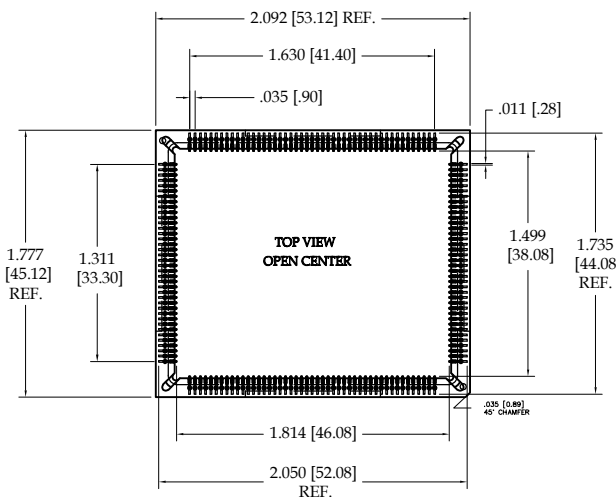
COVER & HARDWARE SHOWN



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

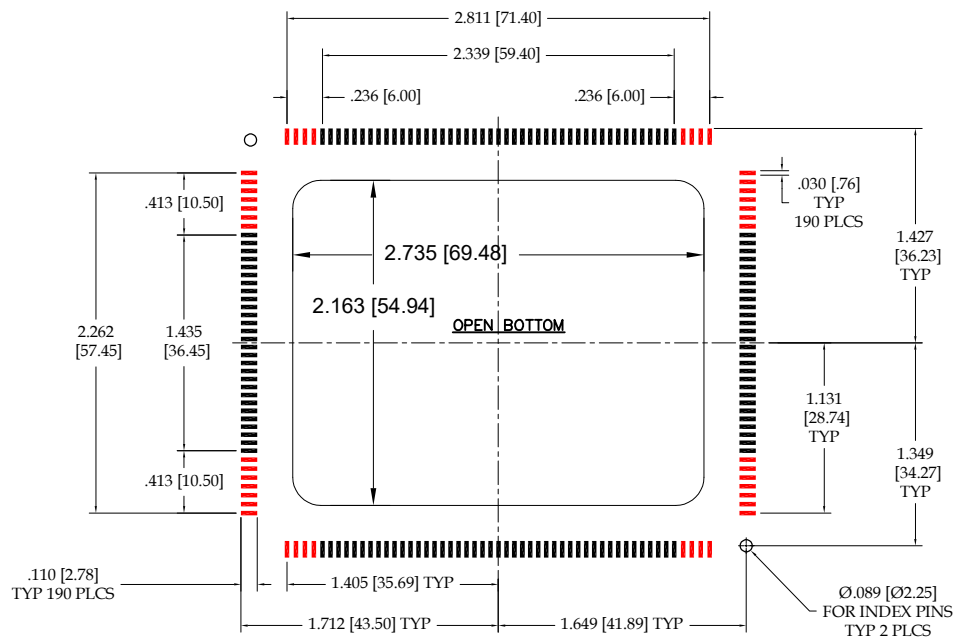
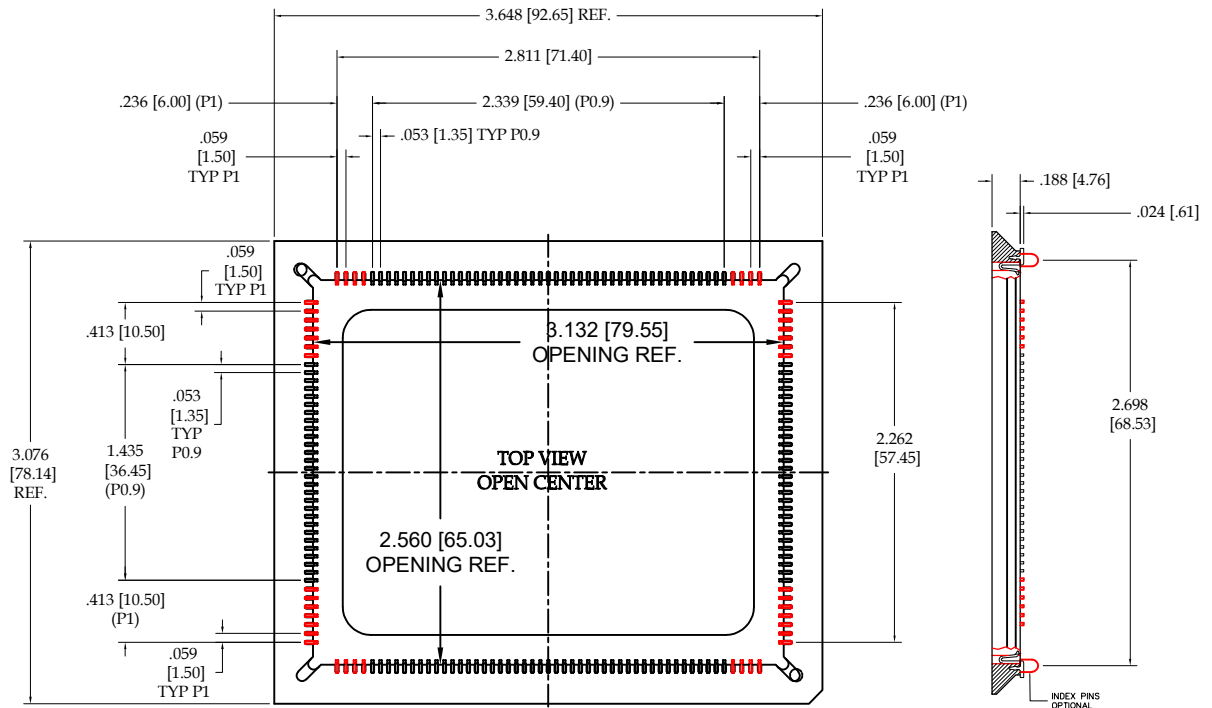


**Fig. 7** **170 Pins**  
**Surface Mount:** 662-170-SM-G10-R27-L14-1

## CANON Continued

### Image Sensor Socket Footprints

Units: in [mm]



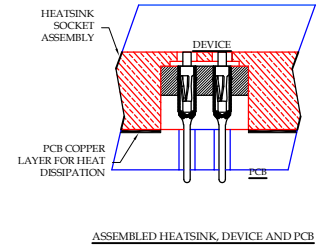
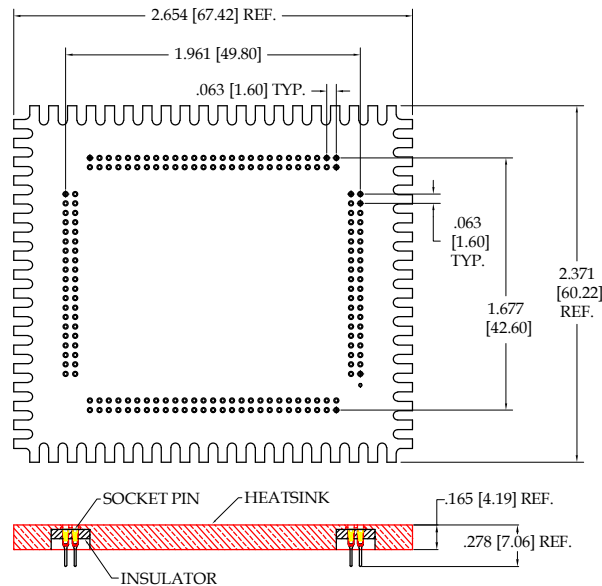
**Fig. 8** **182 Pins**  
Surface Mount: 662-00673-SM-G10-R27-L14-1



## CANON Continued

### Image Sensor Socket Footprints

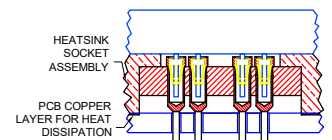
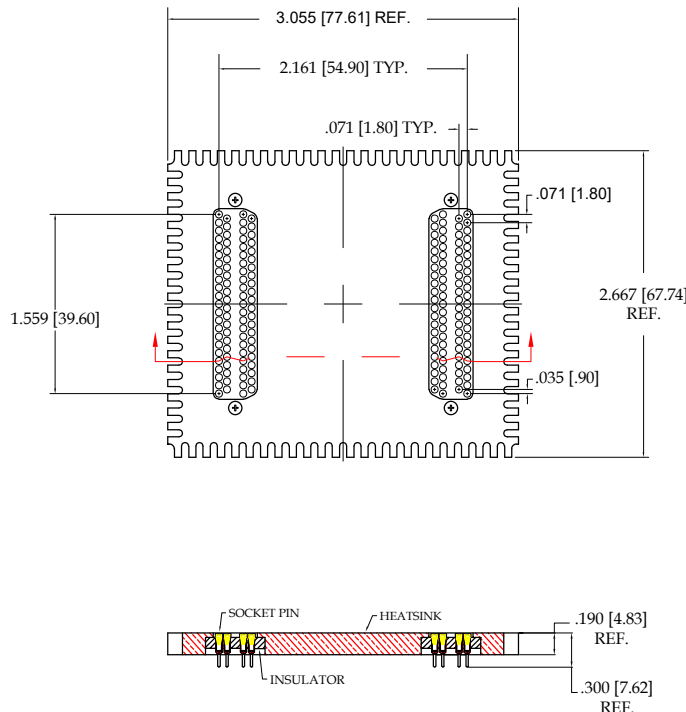
Units: in [mm]



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

**PATENTED**

**PATENTED**



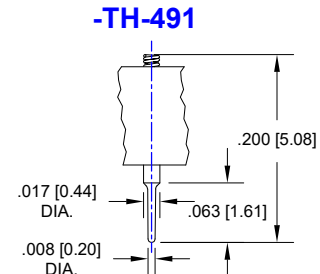
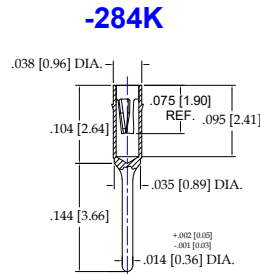
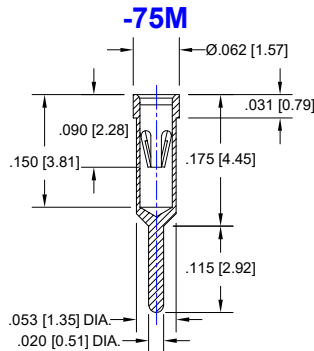
**Fig. 10**  
Thru-Hole: IS236D-00672-180-75M-R27-L14-HS1

## CANON *Continued*

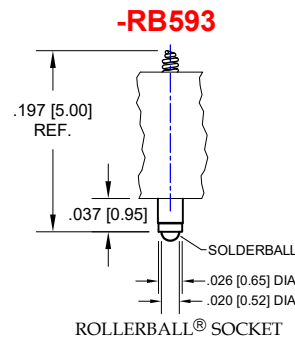
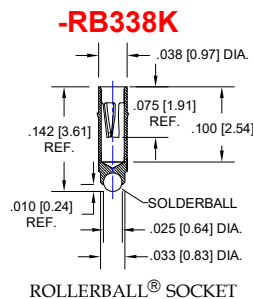
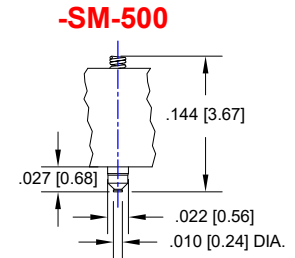
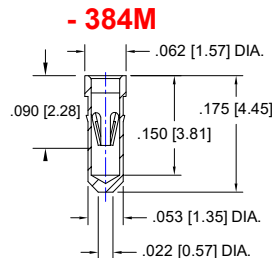
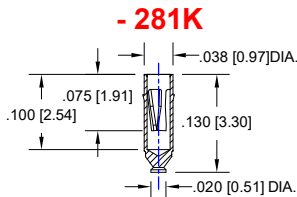
### Image Sensor Terminal Options

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**

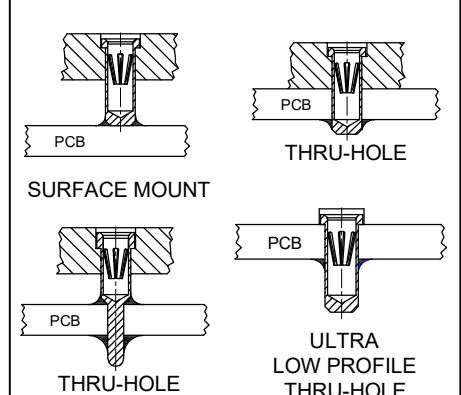
### Material:

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
<b>-284K</b>	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min	<b>-281K</b>	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min
<b>-TH-491</b>	-	-	-	<b>-SM-500</b>	-	-	-
<b>-75M</b>	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min	<b>-384M</b>	Ø.018 [Ø0.46]	1.60 oz Max	0.50 oz Min
				<b>-RB338K</b>	Ø.018 [Ø0.46]	1.24 oz Max	0.50 oz Min
				<b>-RB593</b>	-	-	-

### MOUNTING OPTIONS



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

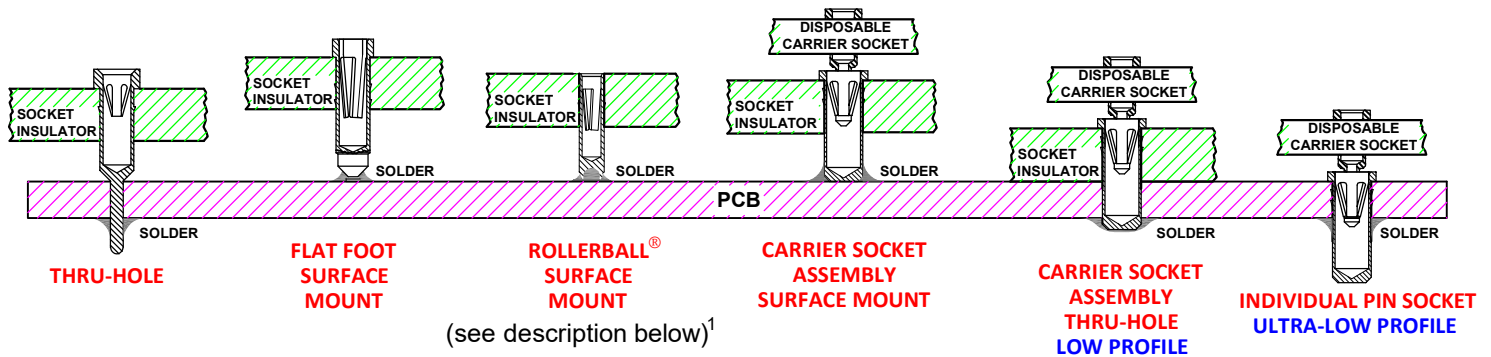
[www.andonelectronics.com](http://www.andonelectronics.com) or [www.andonelect.com](http://www.andonelect.com)  
Phone 401-333-0388 Fax 401-333-0287  
Email [Info@andonelect.com](mailto:Info@andonelect.com)

**RoHS Compliant**

**Andon Proprietary Information**

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

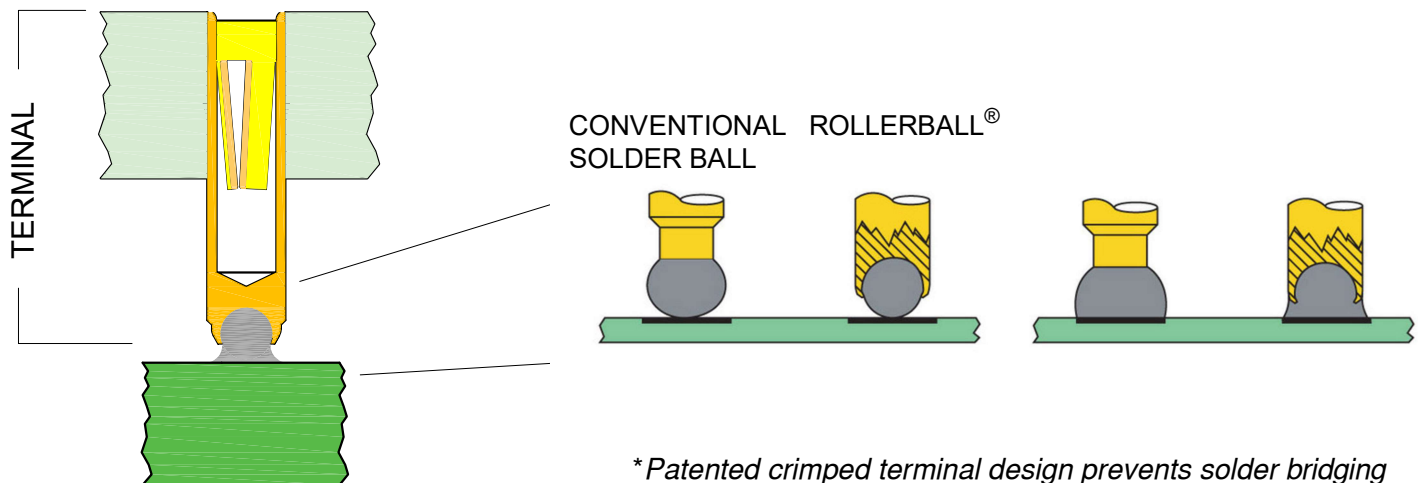




<sup>1</sup>Andon's patented Rollerball<sup>®</sup> socket terminal option provides more accurate soldering, a stronger connection, and improved electrical connectivity - especially under shock and vibration - than other solder ball terminal designs. Better yet, it can enable you to avoid expensive rework 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.



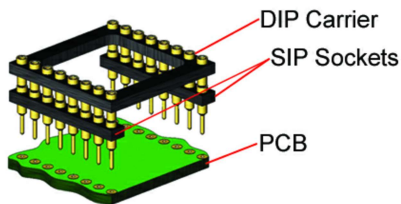
**Phase 2:**  
Place carrier assemblies onto PCB;  
run through your soldering process.



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

### DIP

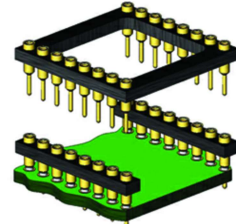
#### Before Soldering



#### During Soldering

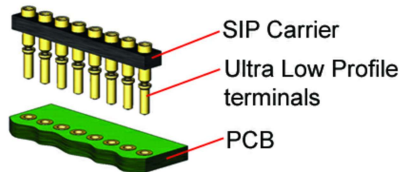


#### After Soldering

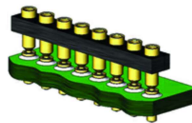


### ULTRA-LOW PROFILE SIP

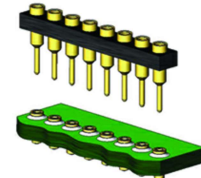
#### Before Soldering



#### During Soldering

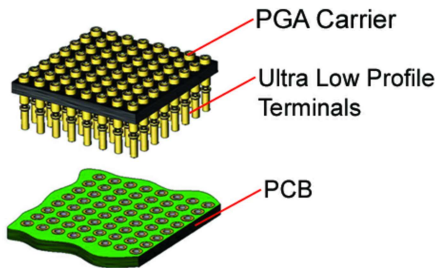


#### After Soldering

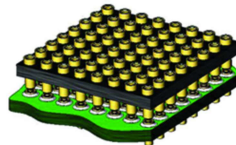


### ULTRA-LOW PROFILE PGA

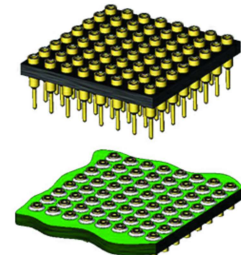
#### Before Soldering



#### During Soldering

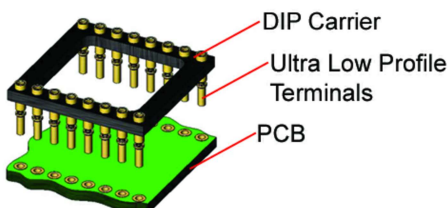


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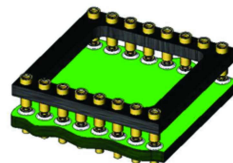


### ULTRA LOW PROFILE DIP

#### Before Soldering



#### During Soldering



#### After Soldering

