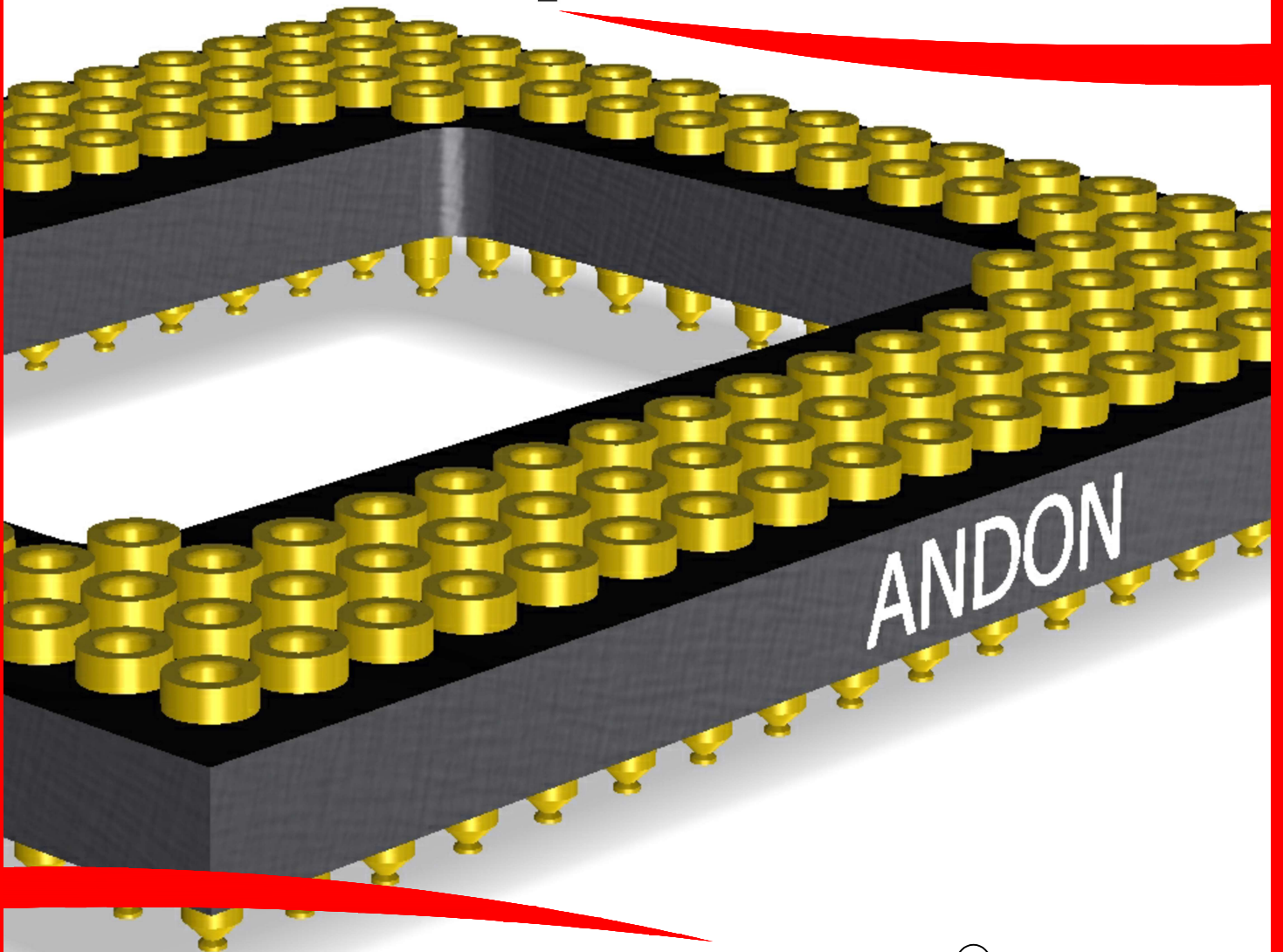




High-Reliability Image Sensor Sockets for Gpixel Microelectronics Inc.

Gpixel



Featuring Andon's Unique SenstacTM Contact

GPIXEL INC.							
GPIXEL INC. Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball®			
GCINE3243	683-455-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	20	8
GCINE4349	692-431-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	19	8
GL0402	694D-76-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	10	4
GL0816	10-37-01-258-XXX-R27-L14	400T4	414T4	RB501T4	.012	5	3
GL3504	685-58-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	27	11
GLT5008BSI	10-39-05-231-XXX-R27-L14	400T4	414T4	RB501T4	.012	22	9
GLT5009BSI	10-45-01-269-XXX-R27-L14	400T4	414T4	RB501T4	.012	17	7
GLT5016BSI	10-66-02-415-XXX-R27-BT14	274UM	315UM	RB338UM	.012	23	9
GLUX1605BSI	684-84-XX-XXX-R27-L14-1	TH-491	SM-500		-	18	7
GLUX9701BSI	684-84-XX-XXX-R27-L14-1	TH-491	SM-500		-	18	7
GMAX0505	694-230B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	28	11
GMAX0806	10-24-10A-183-XXX-R27-L14	400T4	414T4	RB501T4	.012	4	2
GMAX15271BSI	10-27-13A-161-XXX-R27-L14	400T4	414T4	RB501T4	.012	15	6
GMAX2424BSI	694-176C-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	30	11
GMAX2505	694-230D-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	12	5
GMAX2509	694-230D-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	12	5
GMAX2518	694-230E-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	13	6
GMAX32103	10-35-07A-209-XXX-R27-L14	400T4	414T4	RB501T4	.012	14	6
GMAX32152	10-46-03-183-XXX-R27-L14	400T4	414T4	RB501T4	.012	6	3
GMAX3265	10-26-40-239-XXX-R27-L14	400T4	414T4	RB501T4	.012	8	4
GMAX3405	694-176B-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	29	11
GMAX3809	694-163B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	11	5
GMAX4651	585-19-23-238-XXX-R27-L14	75M	384M	-	.018	9	4
GSENSE1517BSI	585-19-25-144-XXX-R27-L14	211S	384S	-	.018	24	9
GSENSE2011	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	1	2
GSENSE2020	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	1	2
GSENSE2020BSI	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	1	2
GSENSE3243BSI	683-455-XX-XXX-R27-L14-X	TH-491	SM-500	SM-RB593	-	20	8
GSENSE400	575-13-87-115-XXX-R27-L14	01M	93M	RB338K	.018	2	2
GSENSE400	575-13-87A-115-XXX-R27-L14	01M	93M	RB338K	.018	2	2
GSENSE400BSI	575-13-87-115-XXX-R27-L14	01M	93M	RB338K	.018	2	2
GSENSE400BSI	575-13-87A-115-XXX-R27-L14	01M	93M	RB338K	.018	2	2
GSENSE4040/4040BSI	575-20-21A-140-XXX-R27-L14	01M	93M	RB338K	.018	3	2
GSENSE6060/6060BSI	575-38-03A-250-XXX-R27-L14	01M	93M	RB338K	.018	7	3
GSENSE6504BSI	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	1	2
GSENSE6510BSI	683-284-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	26	10
GSPRINT4502	10-20-06-255-XXX-R27-L14	400T4	414T4	RB501T4	.012	21	9
GSPRINT4510	10-30-15-454-XXX-R27-L14	274UM	315UM	RB338UM	.012	16	7
GSPRINT4521	10-30-15-454-XXX-R27-L14	274UM	315UM	RB338UM	.012	16	7
GSPRINT5514BSI	10-30-15-454-XXX-R27-L14	274UM	315UM	RB338UM	.012	16	7
GSPRINT6502BSI	683-134-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	25	10

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

GPIXEL INC.							
GPIXEL INC. Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type			Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount	Rollerball®			
GMAX32103	10-35-07-209-XXX-R27-L14-HS1	400T4	-	-	.012	32	13
GSPRINT4510	10-30-15-454-XX-R27-L14-HS1	275UM	-	-	.012	31	13
GSPRINT4521	10-30-15-454-XX-R27-L14-HS1	275UM	-	-	.012	31	13

GPIXEL INC. *Continued*

Image Sensor Socket Footprints

Units: in [mm]

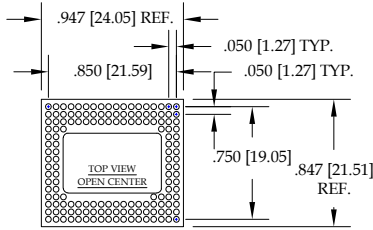


Fig. 1 **153 Pins**
Thru-Hole: 10-18-04A-153-**400T4**-R27-L14
Surface Mount: 10-18-04A-153-**414T4**-R27-L14
Rollerball®: 10-18-04A-153-**RB501T4**-R27-L14

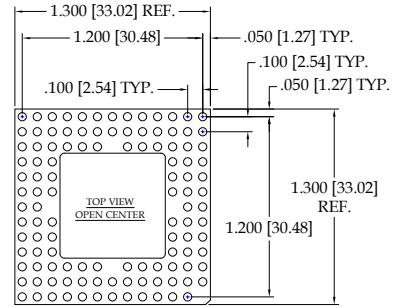


Fig. 2 **115 Pins**
Thru-Hole: 575-13-87-115-**01M**-R27-L14
Surface Mount: 575-13-87-115-**93M**-R27-L14
Rollerball®: 575-13-87-115-**RB338K**-R27-L14
WITH OPTIONAL WINDOW SHOWN
Thru-Hole: 575-13-87A-115-**01M**-R27-L14
Surface Mount: 575-13-87A-115-**93M**-R27-L14
Rollerball®: 575-13-87A-115-**RB338K**-R27-L14

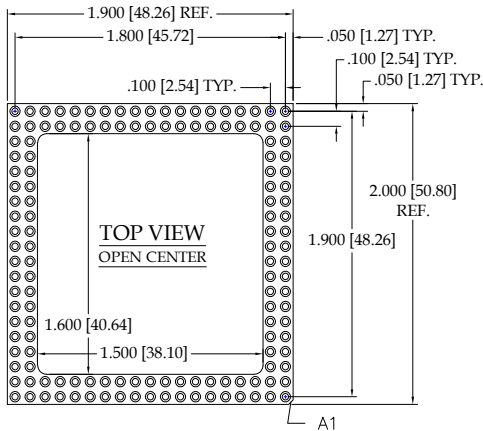


Fig. 3 **140 Pins**
Thru-Hole: 575-20-21A-140-**01M**-R27-L14
Surface Mount: 575-20-21A-140-**93M**-R27-L14
Rollerball®: 575-20-21A-140-**RB338K**-R27-L14

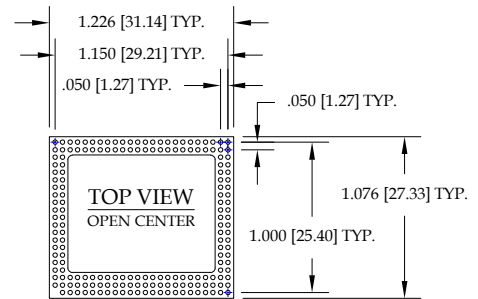


Fig. 4 **183 Pins**
Thru-Hole: 10-24-10A-183-**400T4**-R27-L14
Surface Mount: 10-24-10A-183-**414T4**-R27-L14
Rollerball®: 10-24-10A-183-**RB501T4**-R27-L14

GPIXEL INC. *Continued* Image Sensor Socket Footprints Units: in [mm]

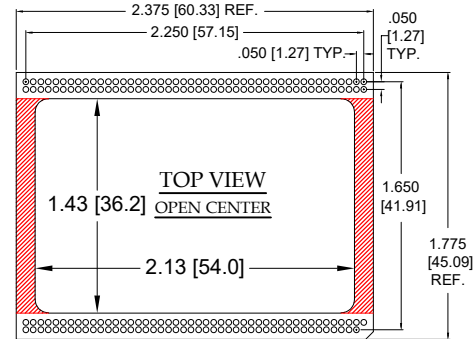
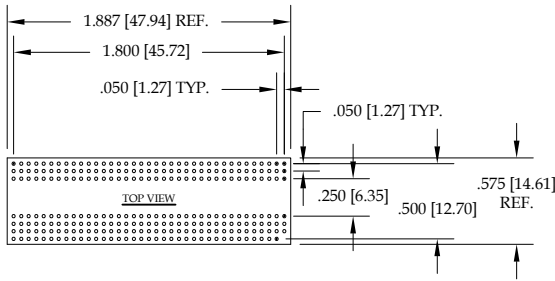


Fig. 5 **258 Pins**
Thru-Hole: 10-37-01-258-400T4-R27-L14
Surface Mount: 10-37-01-258-414T4-R27-L14
Rollerball®: 10-37-01-258-RB501T4-R27-L14

Fig. 6 **183 Pins**
Thru-Hole: 10-46-03-183-400T4-R27-L14
Surface Mount: 10-46-03-183-414T4-R27-L14
Rollerball®: 10-46-03-183-RB501T4-R27-L14

REFER TO LAST PAGE FOR CARRIER OPTIONS
 RED SECTIONS OF INSULATOR CAN BE OMITTED AND
 THIS CARRIER USED IN THEIR PLACE:

Carrier/Sips: 9-10-46-03-183-XXX-R27-L14-SIP

← Replace "-XXX" with choice of terminal

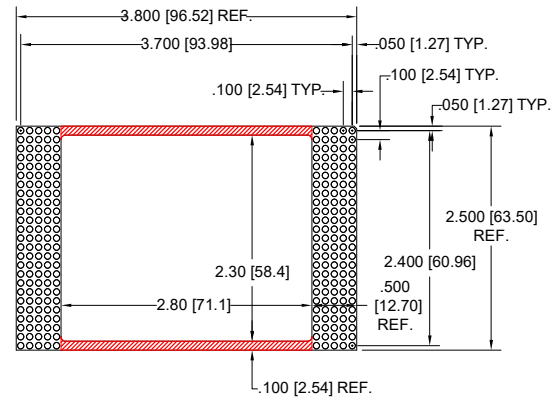


Fig. 7 **250 Pins**
Thru-Hole: 575-38-03A-250-01M-R27-L14
Surface Mount: 575-38-03A-250-93M-R27-L14
Rollerball®: 575-38-03A-250-RB338K-R27-L14

REFER TO LAST PAGE FOR CARRIER OPTIONS
 RED SECTIONS OF INSULATOR CAN BE OMITTED AND
 THIS CARRIER USED IN THEIR PLACE:

Carrier/Sips: 9-575-38-03A-250-XXX-R27-L14-SIP

← Replace "-XXX" with choice of terminal

GPIXEL INC. *Continued* Image Sensor Socket Footprints Units: in [mm]

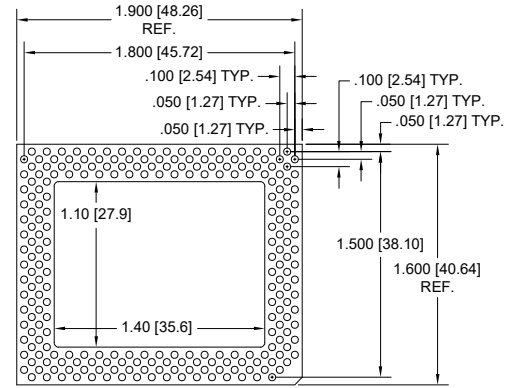
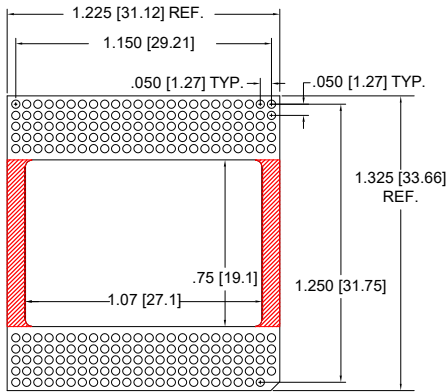


Fig. 8 239 Pins
Thru-Hole: 10-26-40-239-400T4-R27-L14
Surface Mount: 10-26-40-239-414T4-R27-L14
Rollerball®: 10-26-40-239-RB501T4-R27-L14
 REFER TO LAST PAGE FOR CARRIER OPTIONS
 RED SECTIONS OF INSULATOR CAN BE OMITTED AND
 THIS CARRIER USED IN THEIR PLACE:
Carrier/Sips: 9-10-26-40-239-XXX-R27-L14-SIP

Replace "-XXX" with
choice of terminal

Fig. 9 238 Pins
Thru-Hole: 585-19-23-238-75M-R27-L14
Surface Mount: 585-19-23-238-384M-R27-L14

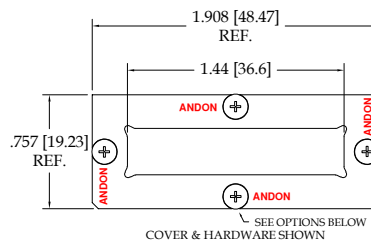
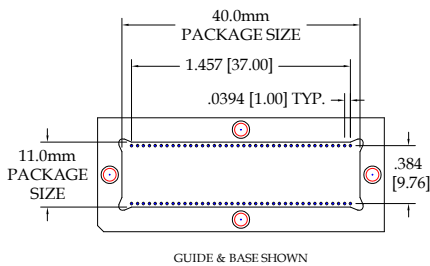


Fig. 10 76 Pins
Thru-Hole: 694D-76-TH-491-R27-L14-1
Surface Mount: 694D-76-SM-500-R27-L14-1
Rollerball®: 694D-76-SM-RB593-R27-L14-1

GPIXEL INC. *Continued* Image Sensor Socket Footprints Units: in [mm]

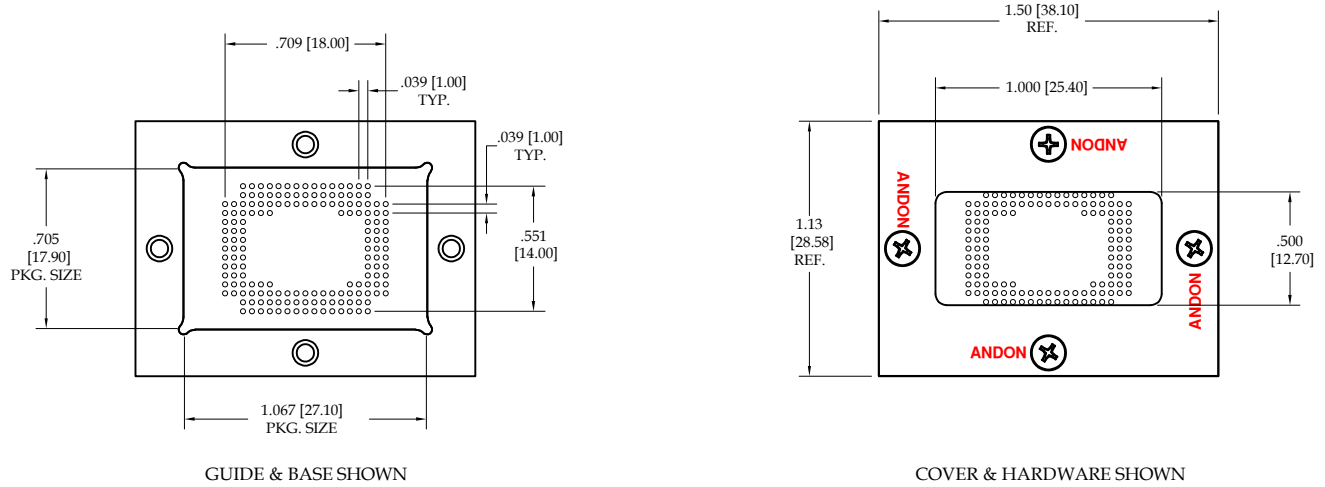


Fig. 11 163 Pins
Thru-Hole: 694-163B-TH-491-R27-L14-1
Surface Mount: 694-163B-SM-500-R27-L14-1
Rollerball®: 694-163B-SM-RB593-R27-L14-1

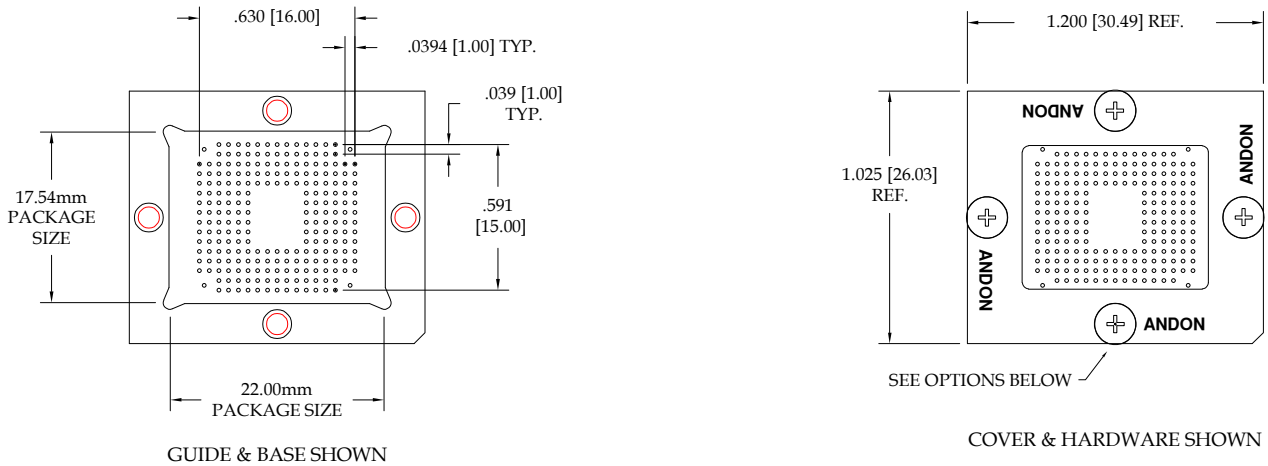


Fig. 12 230 Pins
Thru-Hole: 694-230D-TH-491-R27-L14-1
Surface Mount: 694-230D-SM-500-R27-L14-1
Rollerball®: 694-230D-SM-RB593-R27-L14-1

GPIXEL INC. *Continued* Image Sensor Socket Footprints Units: in [mm]

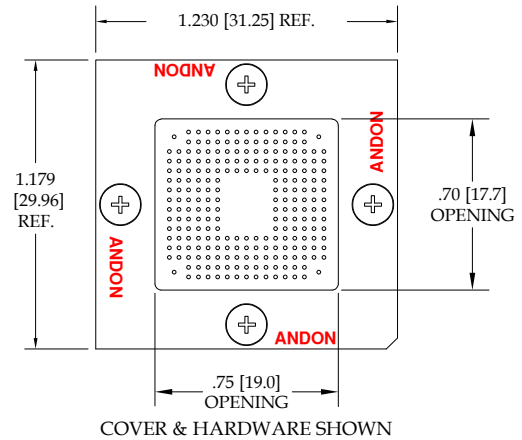
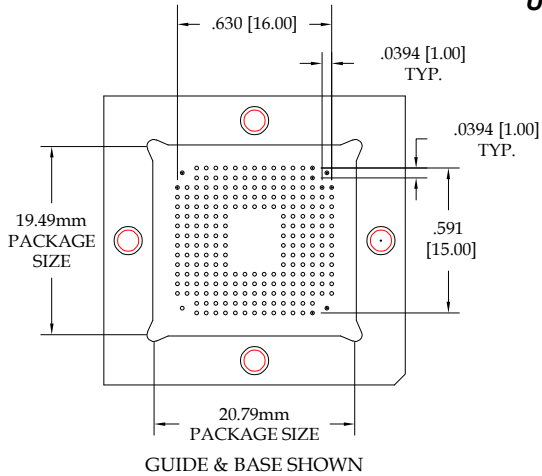


Fig. 13 230 Pins
Thru-Hole: 694-230E-TH-491-R27-L14-1
Surface Mount: 694-230E-SM-500-R27-L14-1
Rollerball®: 694-230E-SM-RB593-R27-L14-1

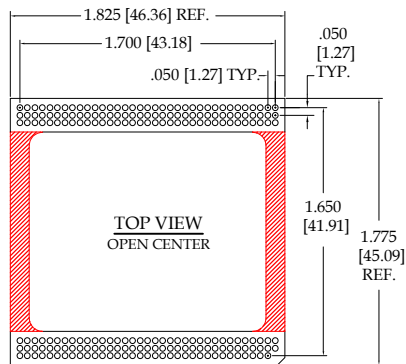


Fig. 14 209 Pins
Thru-Hole: 10-35-07A-209-400T4-R27-L14
Surface Mount: 10-35-07A-209-414T4-R27-L14
Rollerball®: 10-35-07A-209-RB501T4-R27-L14
 REFER TO LAST PAGE FOR CARRIER OPTIONS
 RED SECTIONS OF INSULATOR CAN BE OMITTED AND
 THIS CARRIER USED IN THEIR PLACE:
Carrier/Sips: 9-10-35-07A-209-XXX-R27-L14-SIP

Replace "XXX" with choice of terminal

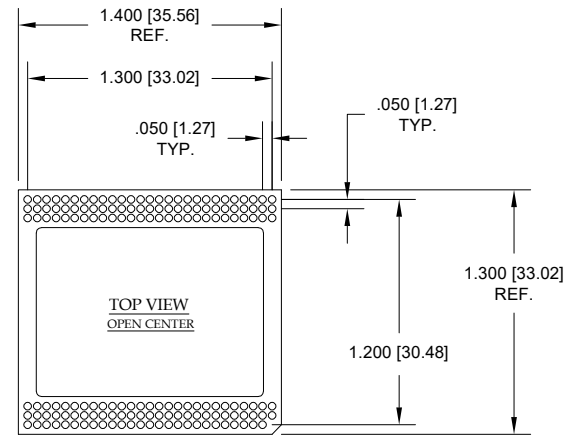


Fig. 15 161 Pins
Thru-Hole: 10-27-13A-161-400T4-R27-L14
Surface Mount: 10-27-13A-161-414T4-R27-L14
Rollerball®: 10-27-13A-161-RB501T4-R27-L14

GPIXEL INC. *Continued* Image Sensor Socket Footprints *Units: in [mm]*

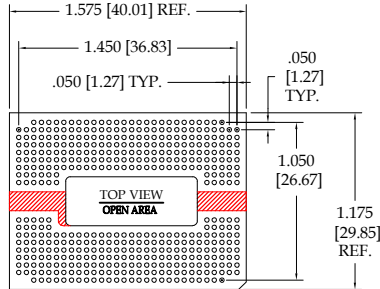


Fig. 16 454 Pins
Thru-Hole: 10-30-15-454-**274UM**-R27-L14
Surface Mount: 10-30-15-454-**315UM**-R27-L14
Rollerball®: 10-30-15-454-**RB338UM**-R27-L14
 REFER TO LAST PAGE FOR CARRIER OPTIONS
 RED SECTIONS OF INSULATOR CAN BE OMITTED AND
 THIS CARRIER USED IN THEIR PLACE:
Carrier/Sips: 9-10-30-15A-454-XXX-R27-L14-SIP

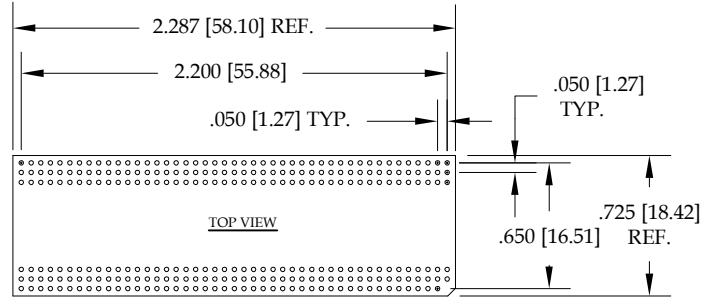


Fig. 17 269 Pins
Thru-Hole: 10-45-01-269-**400T4**-R27-L14
Surface Mount: 10-45-01-269-**414T4**-R27-L14
Rollerball®: 10-45-01-269-**RB501T4**-R27-L14

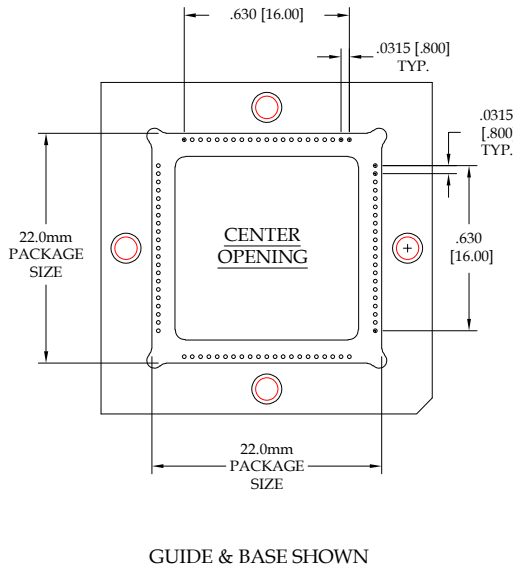
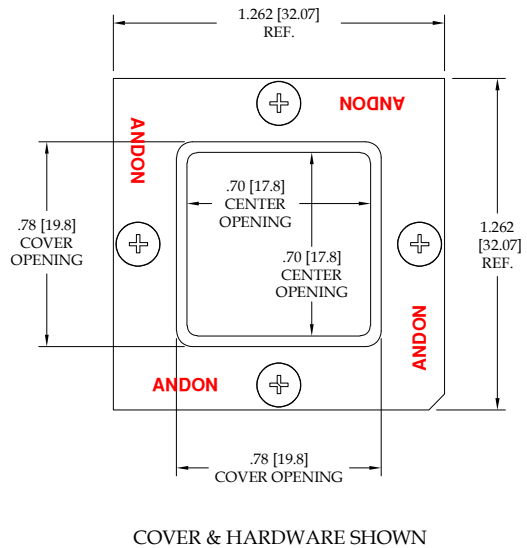


Fig. 18 84 Pins
Thru-Hole: 684-84-TH-**491**-R27-L14-1
Surface Mount: 684-84-SM-**500**-R27-L14-1



GPIXEL INC. *Continued* Image Sensor Socket Footprints Units: in [mm]

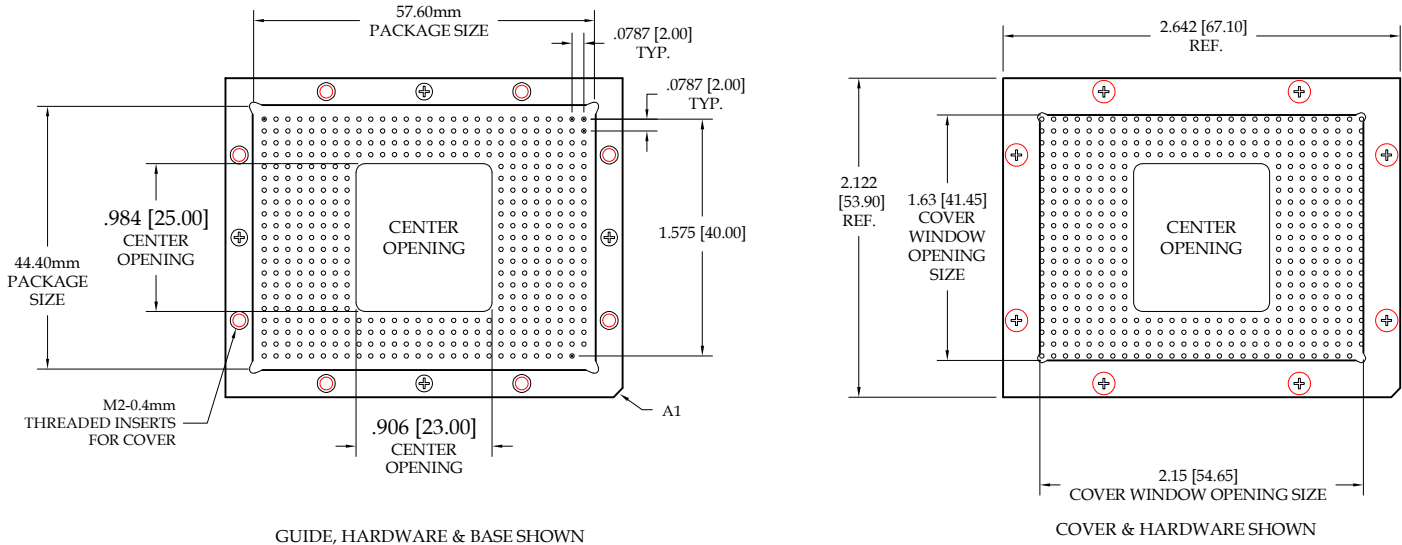


Fig. 19 431 Pins
Thru-Hole: 692-431-TH-491-R27-L14
Surface Mount: 692-431-SM-500-R27-L14
Rollerball®: 692-431-SM-RB593-R27-L14

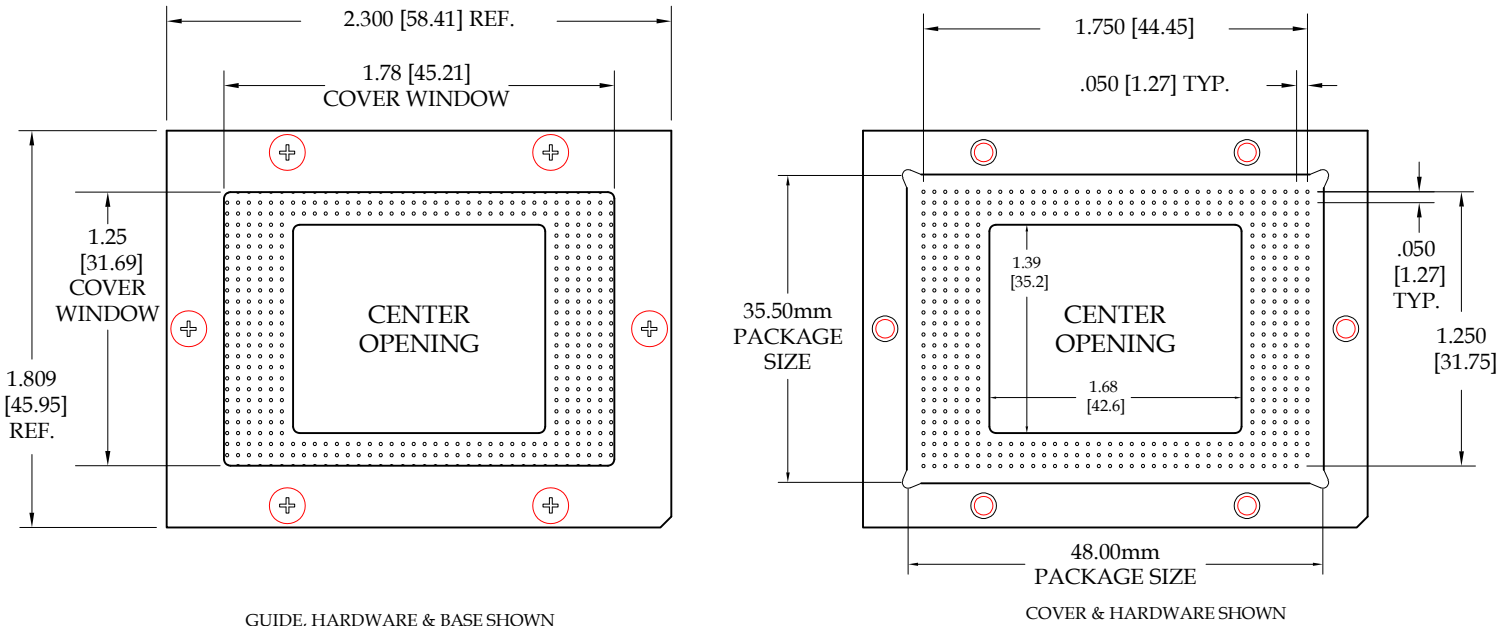


Fig. 20 455 Pins
Thru-Hole: 683-455-TH-491-R27-L14-1
Surface Mount: 683-455-SM-500-R27-L14-1
Rollerball®: 683-455-SM-RB593-R27-L14-1

GPIXEL INC. Continued Image Sensor Socket Footprints

Units: in [mm]

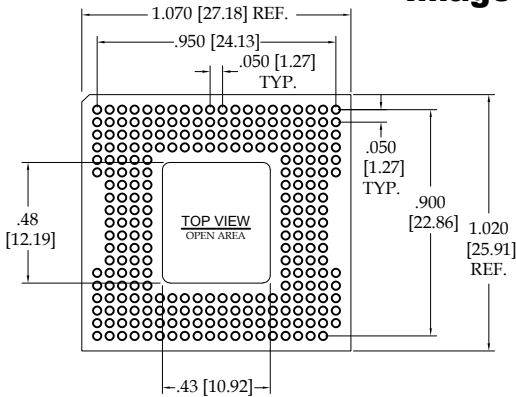


Fig. 21 255 Pins

Thru-Hole: 10-20-06-255-400T4-R27-L14
Surface Mount: 10-20-06-255-414T4-R27-L14
Rollerball®: 10-20-06-255-RB501T4-R27-L14

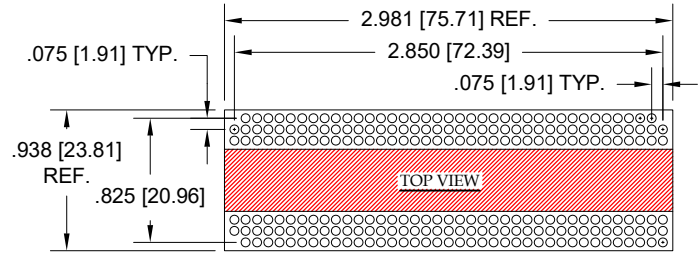


Fig. 22 231 Pins

Thru-Hole: 10-39-05-231-400T4-R27-L14
Surface Mount: 10-39-05-231-414T4-R27-L14
Rollerball®: 10-39-05-231-RB501T4-R27-L14

REFER TO LAST PAGE FOR CARRIER OPTIONS
RED SECTIONS OF INSULATOR CAN BE OMITTED AND
THIS CARRIER USED IN THEIR PLACE.

Carrier/Sips: 9-10-39-05-231-XXX-R27-L14-SIP

Replace "XXX" with
choice of terminal

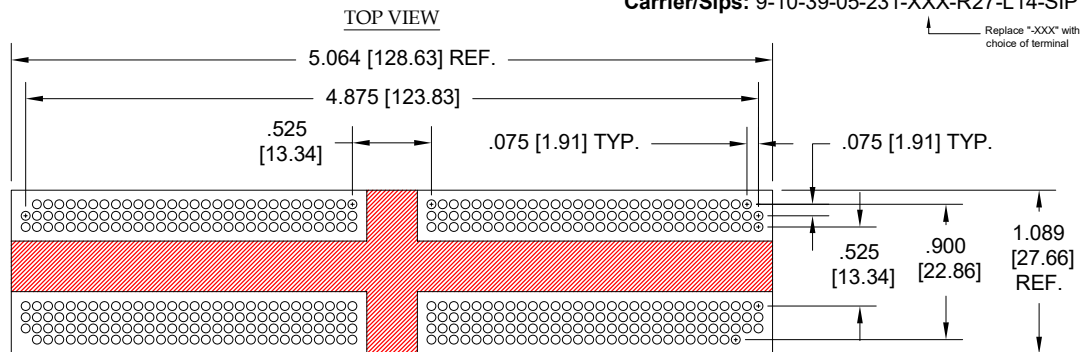


Fig. 23 415 Pins

Thru-Hole: 10-66-02-415-274UM-R27-BT14
Surface Mount: 10-66-02-415-315UM-R27-BT14
Rollerball®: 10-66-02-415-RB338UM-R27-BT14

REFER TO LAST PAGE FOR CARRIER OPTIONS
RED SECTIONS OF INSULATOR CAN BE OMITTED AND
THIS CARRIER USED IN THEIR PLACE.

Carrier/Sips: 9-10-66-02-415-XXX-R27-BT14-SIP

Replace "XXX" with
choice of terminal

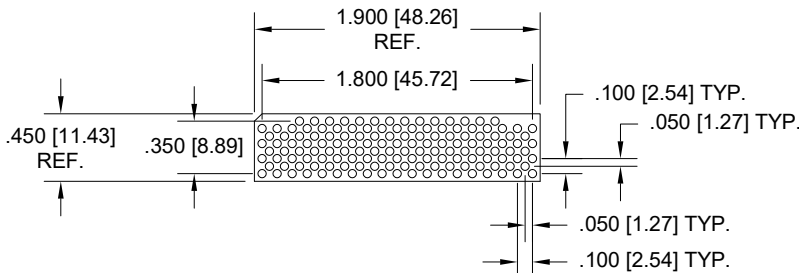


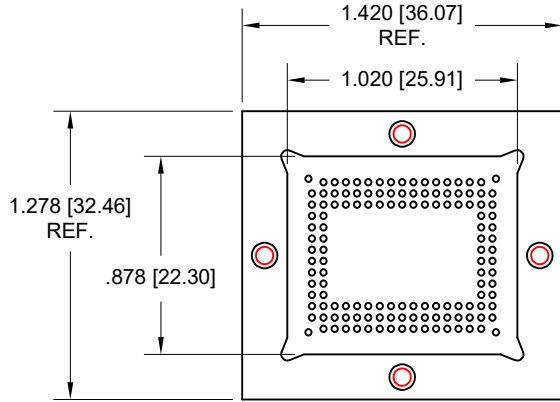
Fig. 24 144 Pins

Thru-Hole: 585-19-25-144-211S-R27-BT14
Surface Mount: 585-19-25-144-384S-R27-BT14

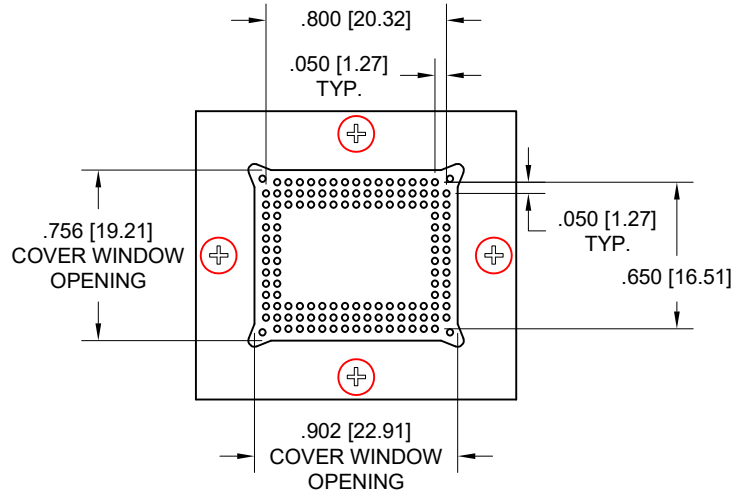
GPIXEL INC. Continued

Image Sensor Socket Footprints

Units: in [mm]



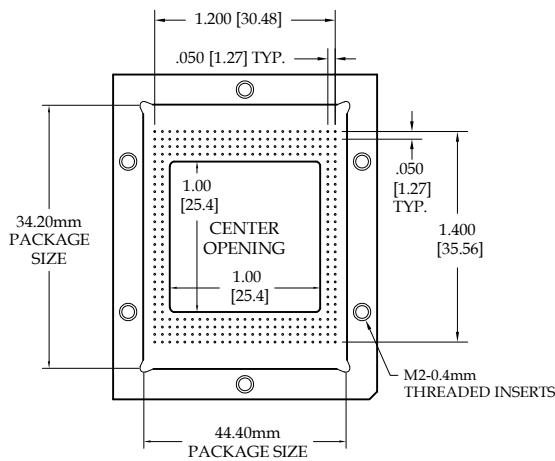
GUIDE & BASE SHOWN



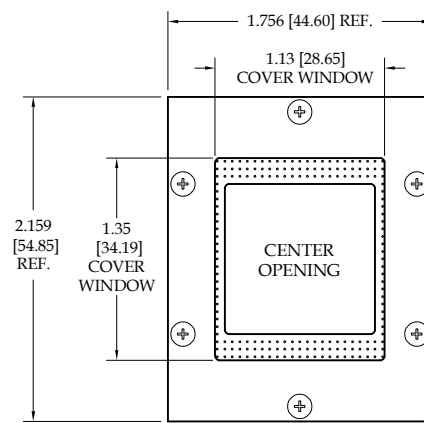
COVER & HARDWARE SHOWN

Fig. 25 134 Pins

Thru-Hole: 683-134-TH-491-R27-L14
Surface Mount: 683-134-SM-500-R27-L14



GUIDE & BASE SHOWN



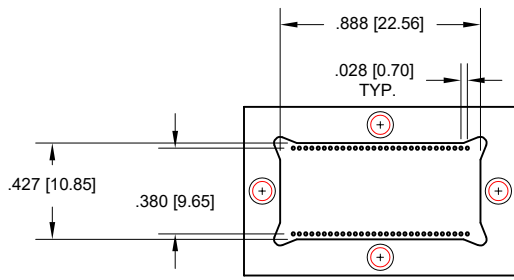
COVER & HARDWARE SHOWN

Fig. 26 284 Pins

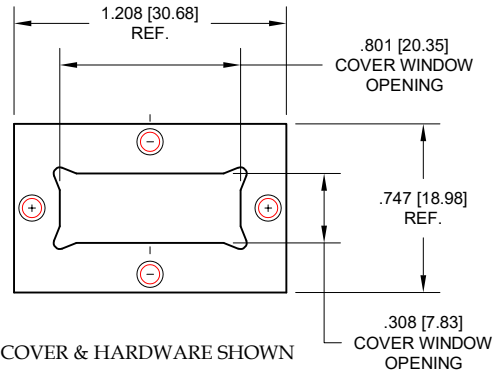
Thru-Hole: 683-284-TH-491-R27-L14
Surface Mount: 683-284-SM-500-R27-L14

GPIXEL INC. Continued Image Sensor Socket Footprints

Units: in [mm]



GUIDE & BASE SHOWN



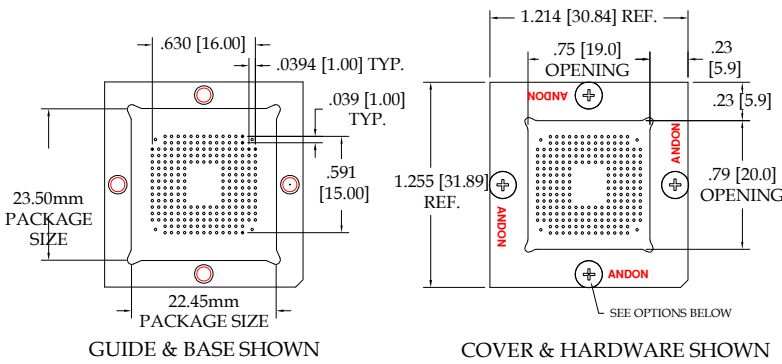
COVER & HARDWARE SHOWN

Fig. 27 230 Pins

Thru-Hole: 694-230B-TH-491-R27-L14-1

Surface Mount: 694-230B-SM-500-R27-L14-1

Rollerball®: 694-230B-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN

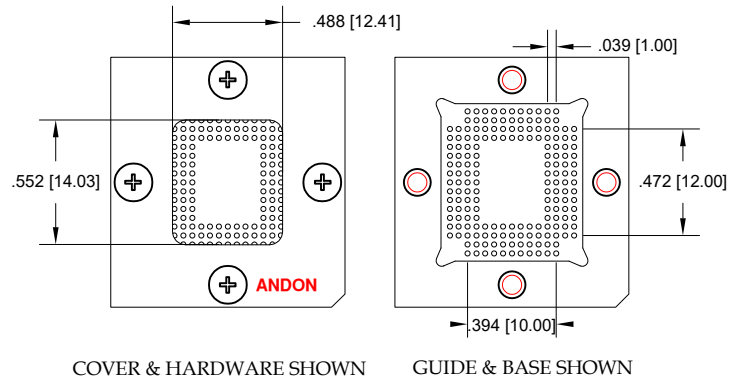
COVER & HARDWARE SHOWN

Fig. 28 230 Pins

Thru-Hole: 694-230B-TH-491-R27-L14-1

Surface Mount: 694-230B-SM-500-R27-L14-1

Rollerball®: 694-230B-SM-RB593-R27-L14-1



COVER & HARDWARE SHOWN

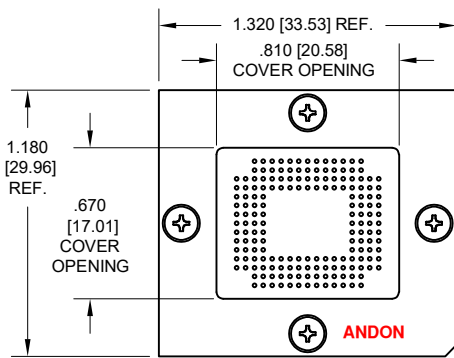
GUIDE & BASE SHOWN

Fig. 29 176 Pins

Thru-Hole: 694-176B-TH-491-R27-L14-1

Surface Mount: 694-176B-SM-500-R27-L14-1

Rollerball®: 694-176B-SM-RB593-R27-L14-1



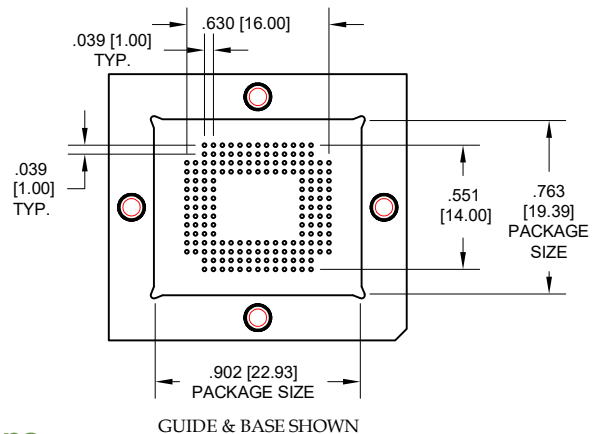
COVER & HARDWARE SHOWN

Fig. 30 176 Pins

Thru-Hole: 694-176C-TH-491-R27-L14-1

Surface Mount: 694-176C-SM-500-R27-L14-1

Rollerball®: 694-176C-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN

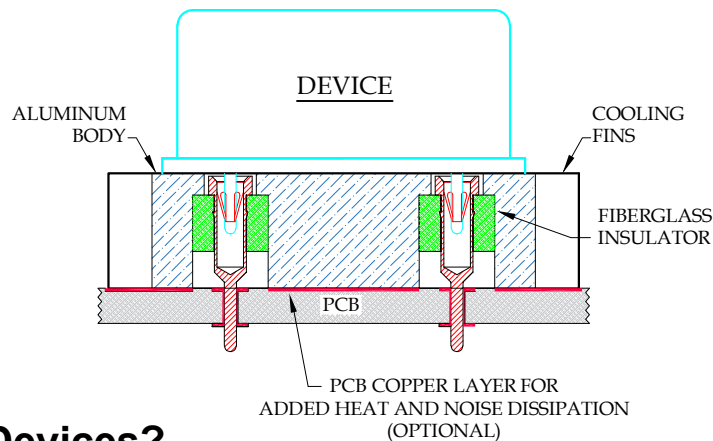
Why Heat Sink Sockets™?

With the rising demand for higher resolution cameras, image sensors are getting increasingly hotter. Optoelectronic sensors and gas sensors have always generated a lot of heat. As heat increases, noise increases geometrically jeopardizing the proper functioning of the sensor. Now there's a solution...

Andon's patented Heat Sink Sockets™ combine the heat dissipation properties of a heat sink with the benefits of using a socket - namely, to avoid exposing the device to high temp solder and contaminating cleaning solutions, as well as to enable easy removal of the device from the PCB without the labor and risk of de-soldering. Also unlike a thermoelectric cooler (TEC), Heat Sink Sockets™ draw the heat downward and away from the device body, require no power and take up little space.

How Do They Work?

Using a Fiberglass insulator encased in an aluminum body, our patented Heat Sink Socket™ design draws heat away from the device and disperses it through a series of cooling fins. An optional copper layer in the PCB can provide additional heat / noise dissipation, as needed.



For What Types Of Devices?

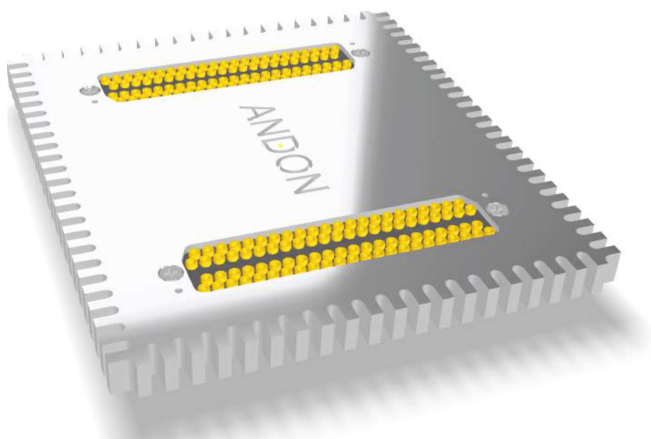
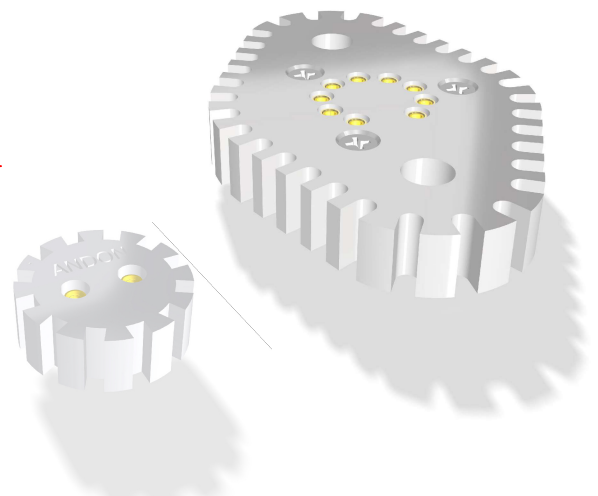


Image Sensors

PATENTED



Optoelectronic and Gas sensors

GPIXEL INC. *Continued* Image Sensor Socket Footprints

Units: in [mm]

PATENTED

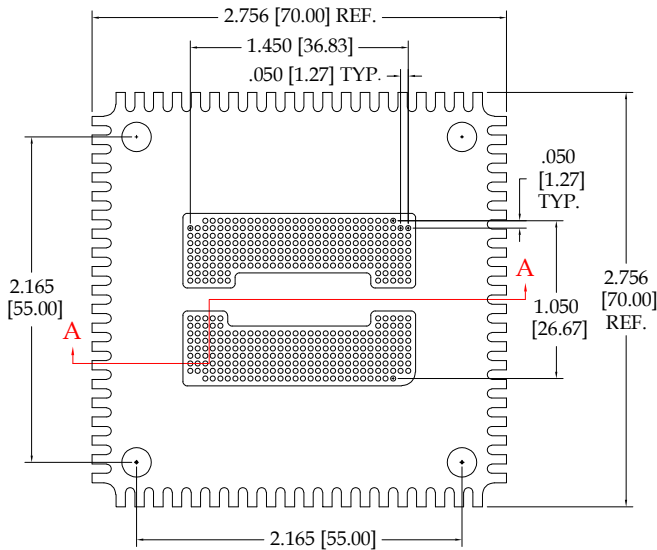
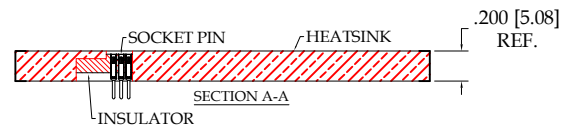
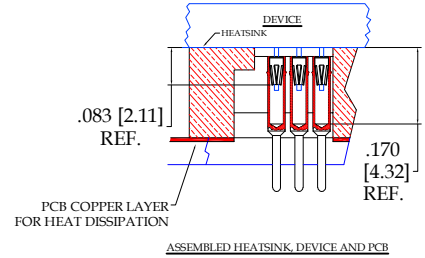


Fig. 31

Thru-Hole: 10-30-15-454-275UM-R27-L14-HS1



PATENTED

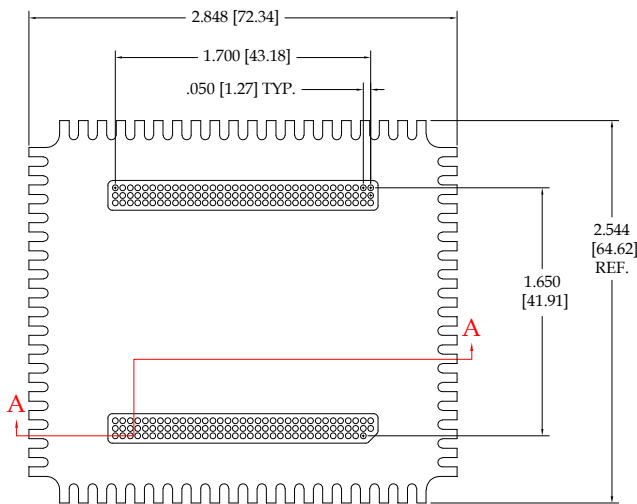
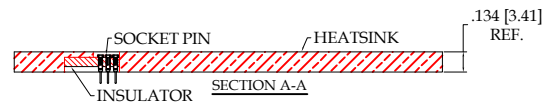
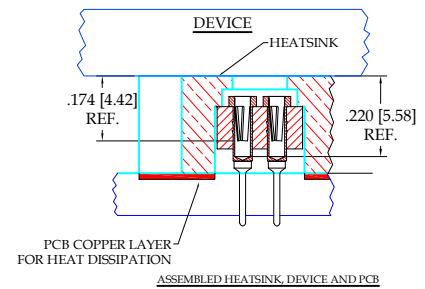


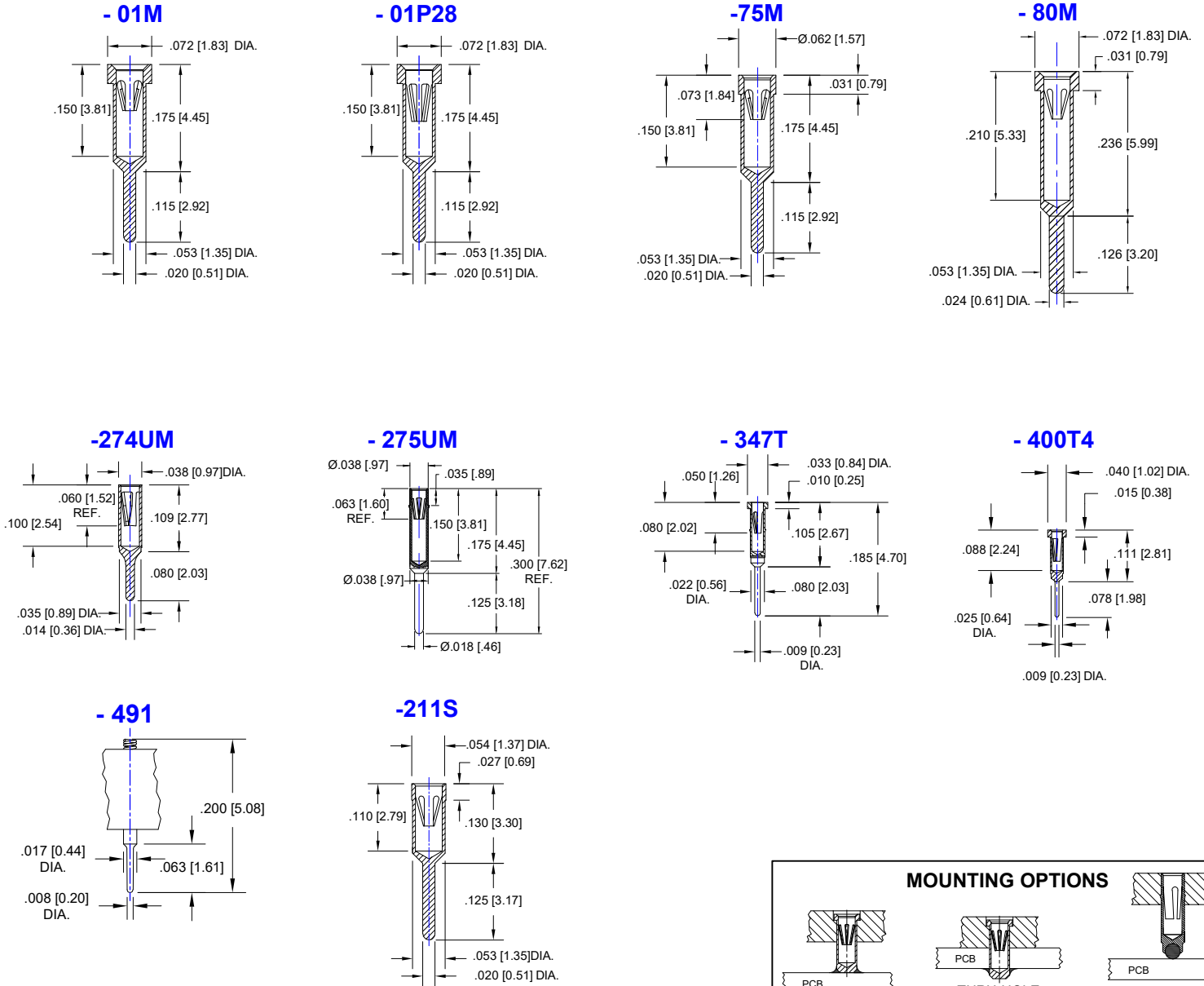
Fig. 32

Thru-Hole: 10-35-07-209-400T4-R27-L14-HS1



GPIXEL INC. *Continued* Image Sensor Terminal Options Units: in [mm]

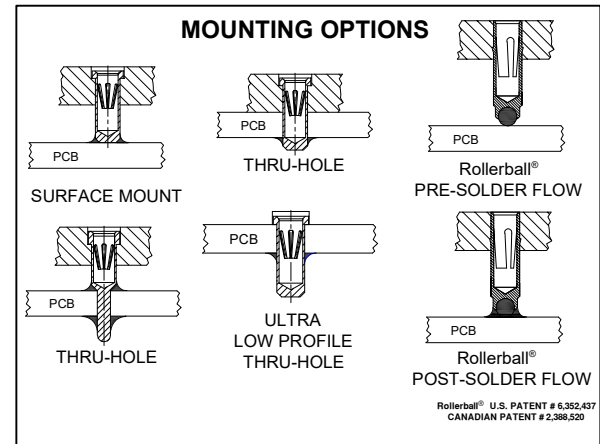
THRU HOLE OPTION



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

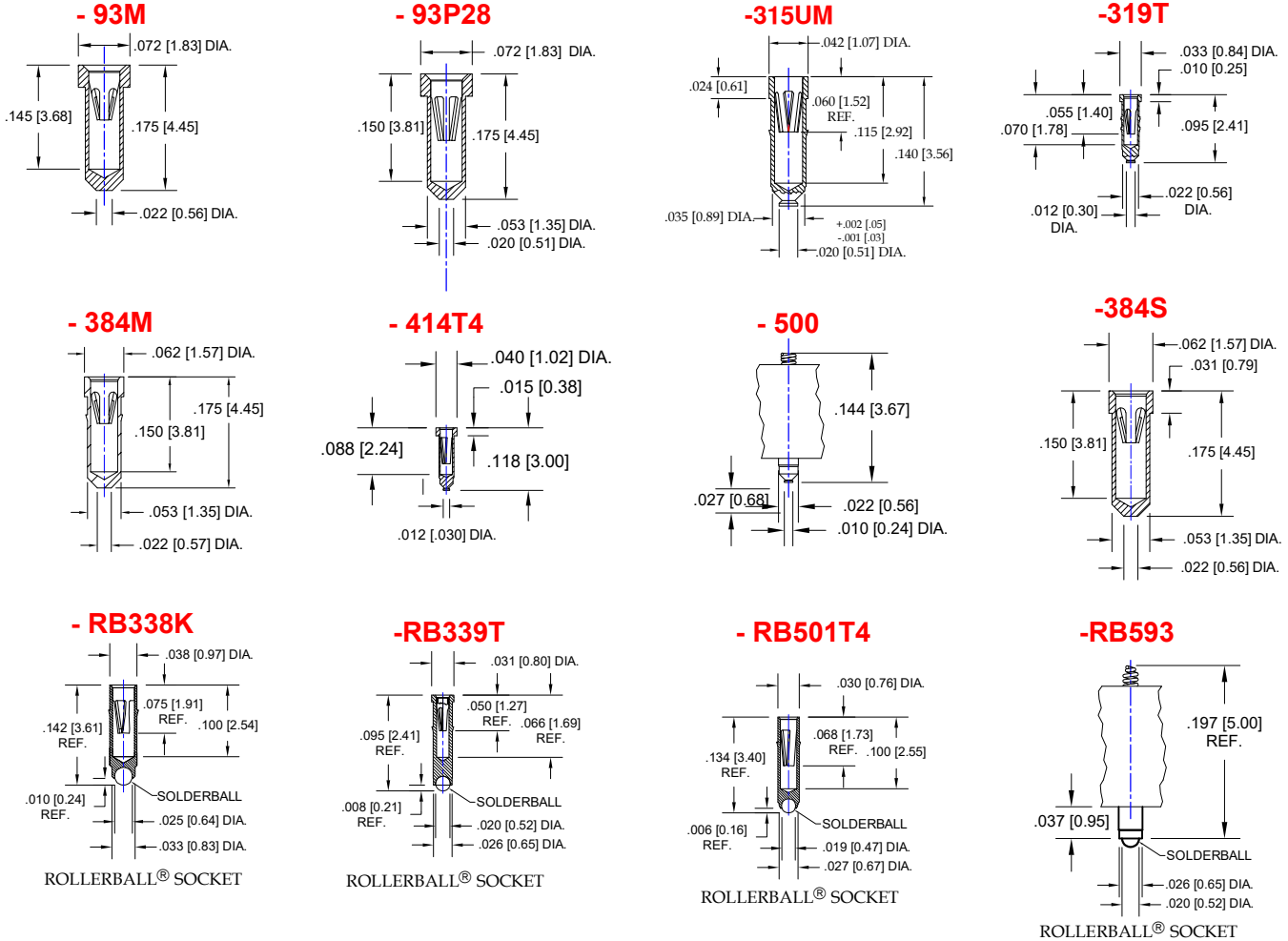


"ANDON PROPRIETARY INFORMATION"
RoHS Compliant

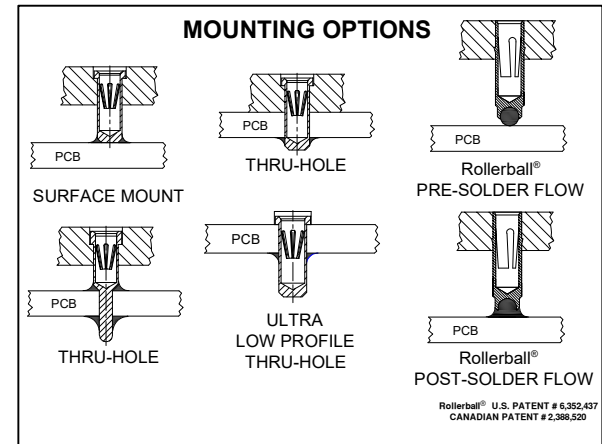
*Sockets are not drawn to scale GPIXEL MICROELECTRONICS INC. 03/17/2026

GPIXEL INC. Continued
Image Sensor Terminal Options
Units: in [mm]

SURFACE MOUNT OPTION



Terminal Acceptance and Forces							
Thru Hole Socket Terminals				Surface Mount Socket Terminals			
Thru Hole Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force	Surface Mount Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force
-400T4	Ø.012 [Ø0.30]	1.1 oz Max	0.3 oz Min	-414T4	Ø.012 [Ø0.30]	1.1 oz Max	0.3 oz Min
-01M	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min	-93M	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min
-80M	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min	-93M	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min
-491	-	-	-	-500	Ø.018 [Ø0.46]	1.6 oz Max	2.0 oz Min
-75M	Ø.018 [Ø0.46]	1.6 oz Avg.	2.0 oz Min	-384M	Ø.018 [Ø0.46]	1.6 oz Max	2.0 oz Min
-347T	Ø.010 [Ø0.25]	1.0 oz Avg.	0.3 oz Min	-319T	Ø.010 [Ø0.25]	1.0 oz Max	0.3 oz Min
-211S	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min	-384S	Ø.018 [Ø0.46]	9.0 oz Max	2.0 oz Min
				-RB339T	Ø.010 [Ø0.25]	1.0 oz Max	0.3 oz Min
				-RB338K	Ø.018 [Ø0.46]	1.24 oz Max	0.5 oz Min
				-RB501T4	Ø.012 [Ø0.30]	1.05 oz Max	0.3 oz Min
				-RB593	-	-	-

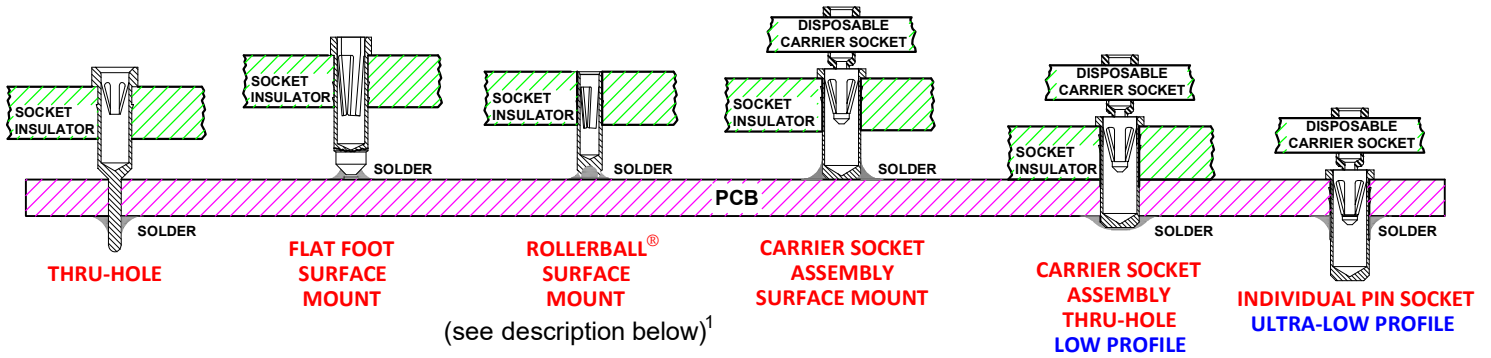


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Rollerball® U.S. PATENT CANADIAN PATENT

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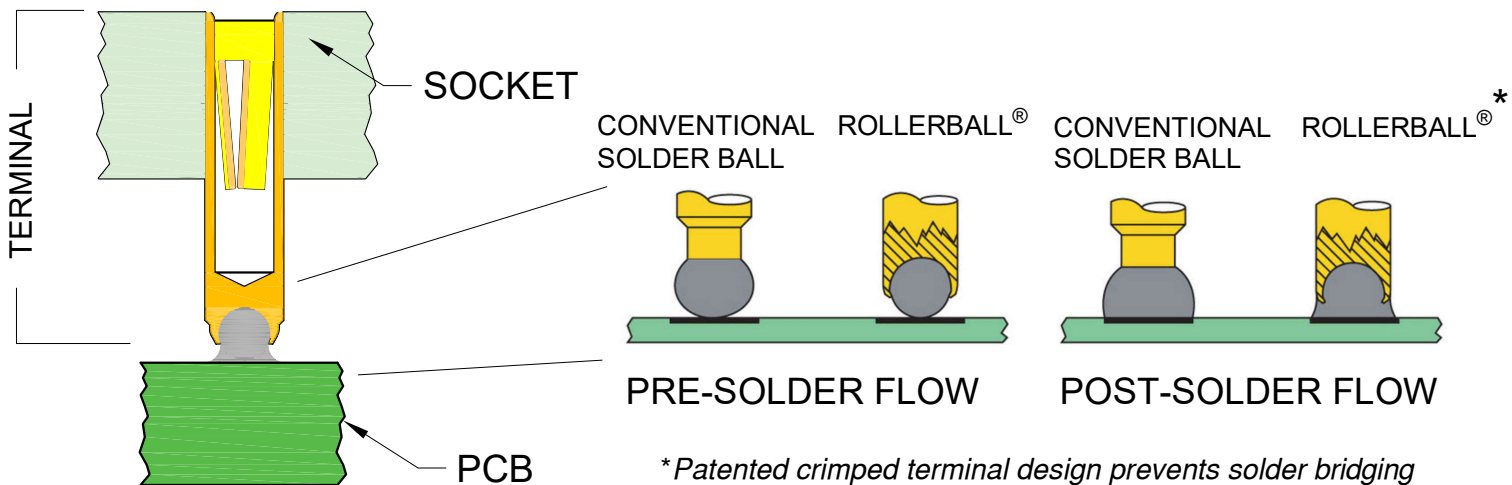


(see description below)¹

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.



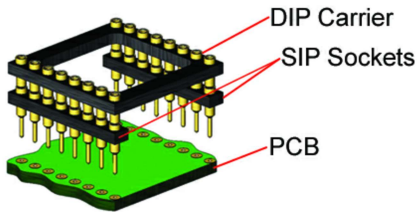
Phase 2:
Place carrier assemblies onto PCB; run through your soldering process.



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

DIP

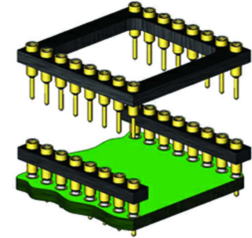
Before Soldering



During Soldering

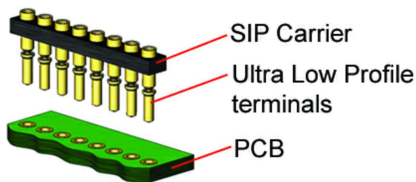


After Soldering

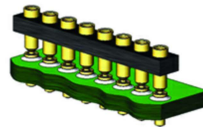


ULTRA-LOW PROFILE SIP

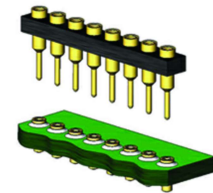
Before Soldering



During Soldering

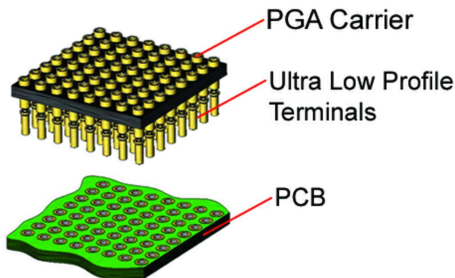


After Soldering

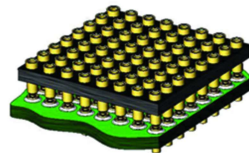


ULTRA-LOW PROFILE PGA

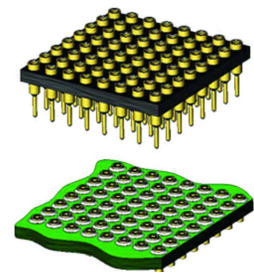
Before Soldering



During Soldering

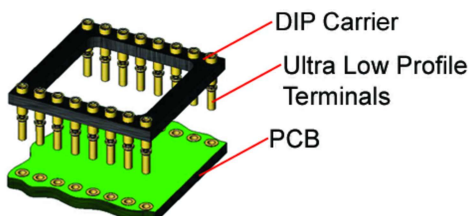


After Soldering

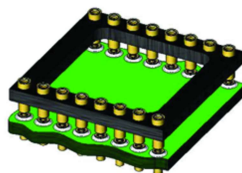


ULTRA LOW PROFILE DIP

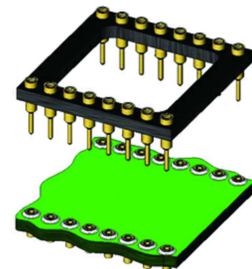
Before Soldering



During Soldering



After Soldering



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