

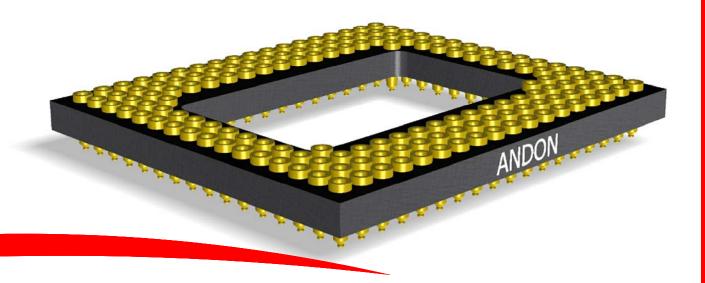






High-Reliability Image Sensor Sockets for Gpixel Inc.





Featuring Andon's Unique Senstac[®]Contact







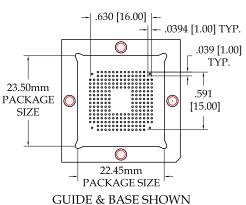


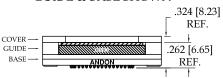
GPIXEL INC.							
GPIXEL INC. Model Number	Andon Part Number	Terminal Type			Pin Ø	Eiguro	Page
	Replace "XXX" with Terminal Type	Thru-Hole	Surface Mount	Rollerball®	[in]	Figure Number	Page Number
GL0204	694D-84-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	10	4
GL0402	694D-76-XX-XXX-R27-L14-X	TH-491	SM-500	-	-	16	5
GL0816	10-37-01-258-XXX-R27-L14	400T4	414T4	RB501T4	.012	9	4
GL1608	575-37-02-136-XXX-R27-L14	01M	93M	RB338K	.018	11	4
GL3208	575-45-02-222-XXX-R27-L14	01M	93M	RB338K	.018	12	4
GMAX0504	575-19-29A-263-XXX-R27-L14	01M	93M	RB338K	.018	6	3
GMAX0505	694-230B-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	1	1
GMAX0806	10-24-10A-183-XXX-R27-L14	400T4	414T4	RB501T4	.012	8	4
GMAX1205	IS229-15184Q-XXX-R27-L14	01M	93M	RB338K	.018	7	3
GMAX2505	694-230C-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	17	6
GMAX2509	694-230D-XX-XXX-R27-L14-1	TH-491	SM-500	SM-RB593	-	18	6
GMAX3265	10-26-40-239-XXX-R27-L14	400T4	414T4	RB501T4	.012	14	5
GMAX4651	585-19-23-238-XXX-R27-L14	75M	384M	-	.018	15	5
GSENSE2011s/2011e	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	2	2
GSENSE2020BSI	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	2	2
GSENSE2020s/2020e	10-18-04A-153-XXX-R27-L14	400T4	414T4	RB501T4	.012	2	2
GSENSE400	575-13-87-115-XXX-R27-L14	01M	93M	RB338K	.018	3	2
GSENSE400	575-13-87A-115-XXX-R27-L14	01M	93M	RB338K	.018	3	2
GSENSE400BSI	575-13-87-115-XXX-R27-L14	01M	93M	RB338K	.018	3	2
GSENSE400BSI	575-13-87A-115-XXX-R27-L14	01M	93M	RB338K	.018	3	2
GSENSE4040	575-20-21A-140-XXX-R27-L14	01M	93M	RB338K	.018	5	3
GSENSE5130	10-29-22-249-XXX-R27-L14	400T4	414T4	RB501T4	.012	4	2
GSENSE6060/6060BSI	575-38-03A-250-XXX-R27-L14	01M	93M	RB338K	.018	13	5

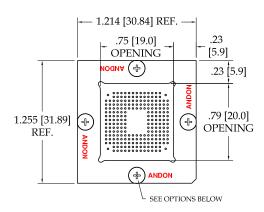
See last page for other mounting types including low profile options.

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

TOP VIEW







COVER & HARDWARE SHOWN

Fig. 1 230 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

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Rollerball® U.S. PATENT # 6,352,437 CANADIAN PATENT # 2,388,520 "ANDON PROPRIETARY INFORMATION"
ROHS Compliant





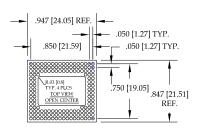


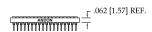


GPIXEL INC. Continued

Image Sensor Socket Footprints

Units: in [mm]





Fia. 2 **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

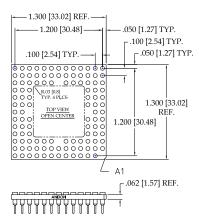


Fig. 3 **115 Pins**

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

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

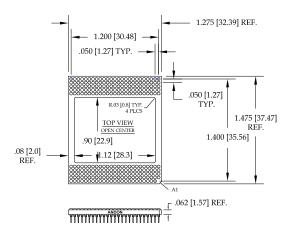


Fig. 4 **249 Pins**

Thru-Hole: 10-29-22-249-400T4-R27-L14 Surface Mount: 10-29-22-249-414T4-R27-L14 Rollerball®: 10-29-22-249-RB501T4-R27-L14

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GPIXEL INC. Continued

Image Sensor Socket Footprints

Units: in [mm]

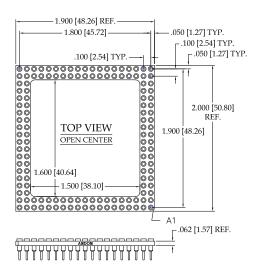


Fig. 5 140 Pins

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

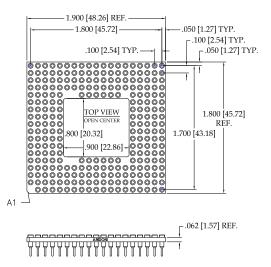


Fig. 6 263 Pins

Thru-Hole: 575-19-29A-263-01M-R27-L14
Surface Mount: 575-19-29A-263-93M-R27-L14
Rollerball®: 575-19-29A-263-RB338K-R27-L14

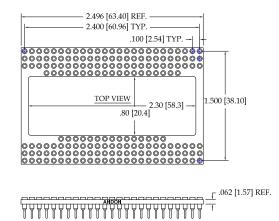


Fig. 7 184 Pins

Thru-Hole: IS229-15184Q-01M-R27-L14
Surface Mount: IS229-15184Q-93M-R27-L14
Rollerball®: IS229-15184Q-RB338K-R27-L14

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GPIXEL INC. Continued

Image Sensor Socket Footprints

1.226 [31.14] TYP.

1.150 [29.21] TYP.

.050 [1.27] TYP.

.050 [1.27] TYP.

1.076 [27.33] TYP.

1.000 [25.40] TYP.

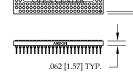


Fig. 8 183 Pins

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



Fig. 10 84 Pins

Thru-Hole: 694D-84-TH-491-R27-L14-1
Surface Mount: 694D-84-SM-500-R27-L14-1
Rollerball®: 694D-84-SM-RB593-R27-L14-1

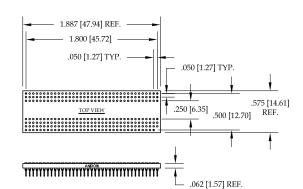
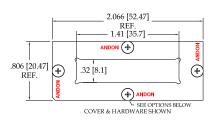
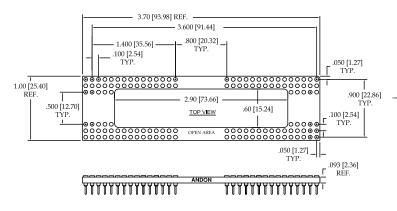


Fig. 9 258 Pins

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





4.50 [114.30] REF.

4.400 [111.76]

1.100 [2.54]
TYP.

1.10 [2.54]
REF.

1.000 [25.40]

1.000 [25.40]

1.000 [25.40]

1.000 [25.40]

Fig. 11 136 Pins

Thru-Hole: 575-37-02-136-01M-R27-L14
Surface Mount: 575-37-02-136-93M-R27-L14
Rollerball®: 575-37-02-136-RB338K-R27-L14

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Fig. 12 222 Pins

Thru-Hole: 575-45-02-222-01M-R27-L14
Surface Mount: 575-45-02-222-93M-R27-L14
Rollerball®: 575-45-02-222-RB338K-R27-L14

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CAMADIAN PATENT # 5,358,350

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ROHS Compliant





GPIXEL INC. Continued

Image Sensor Socket Footprints

Units: in [mm]

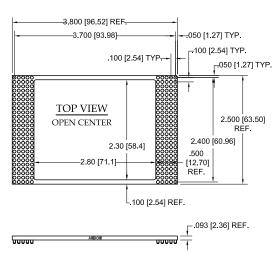


Fig. 13 **250 Pins**

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

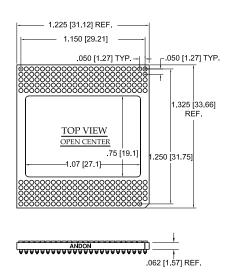
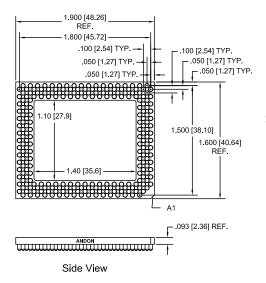
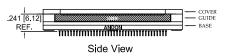


Fig. 14 **239 Pins**

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



40.0mm PACKAGE SIZE 1.908 [48.47] 1.457 [37.00] 1.44 [36.6] .0394 [1.00] TYP. <u></u> ANDON (+) .757 [19.23] 11.0mm .384 .31 [7.9] PACKAGE <u>()</u> [9.76] REF. SIZE ✓ SEE OPTIONS BELOW COVER & HARDWARE SHOWN GUIDE & BASE SHOWN



Fia. 15 **238 Pins**

Thru-Hole: 585-19-23-238-75M-R27-L14 Surface Mount: 585-19-23-238-384M-R27-L14

Fig. 16 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

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

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REF

ANDON

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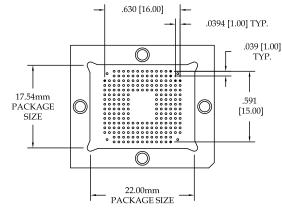


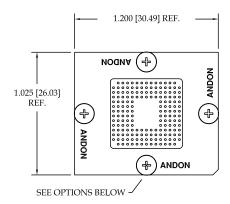


GPIXEL INC. Continued

Image Sensor Socket Footprints

Units: in [mm]





COVER & HARDWARE SHOWN

GUIDE & BASE SHOWN

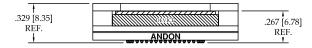
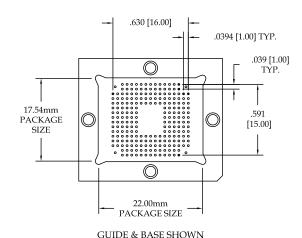
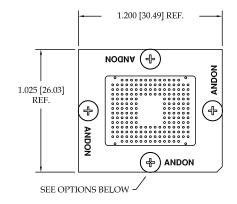


Fig. 17

230 Pins

Thru-Hole: 694-230C-TH-491-R27-L14-1
Surface Mount: 694-230C-SM-500-R27-L14-1
Rollerball®: 694-230C-SM-RB593-R27-L14-1





COVER & HARDWARE SHOWN

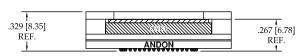


Fig. 18 230 Pins

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

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*Sockets are not drawn to scale GPIXEL INC. 12/10/2019



Terminals





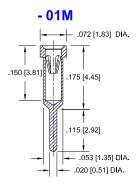


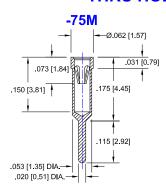
GPIXEL INC. Continued

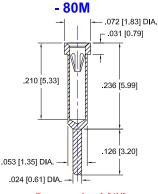
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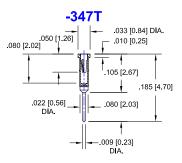
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THRU HOLE OPTION

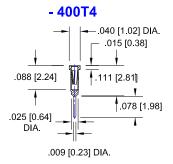


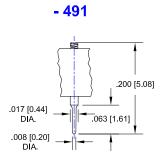






"Longer version of -01M"





Technical Information

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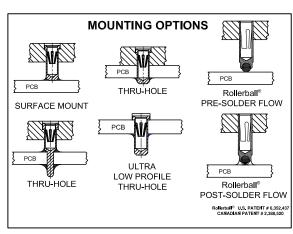
Insulator: Hi-Temp UL 94V-O Terminal: Brass, per ASTM-B16 Contact: BeCu, Per ASTM-B194

Plating: RoHS COMPLIANT R27 TERMINAL: GOLD / CONTACT: GOLD R29 TERMINAL: MATTE TIN / CONTACT: GOLD

R32 TERMINAL: MATTE TIN / CONTACT: TIN

OTHER PLATINGS AVAILABLE

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Terminals







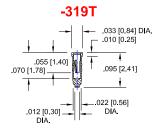
GPIXEL INC. Continued

Image Sensor Terminal Options

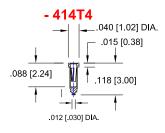
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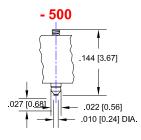
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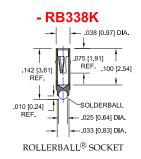




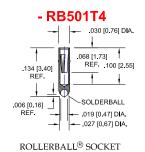


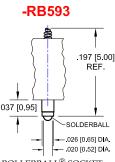


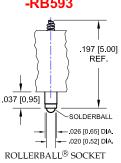












.037	[0.95]	<u>†</u>				
	026 [0.0	65] D I A.				
RO	LLERBALL® SOCI	KET				
		Termin	al Accepta	nce and F	orces	
	Thru Hole	Terminals		Sı	urface Moun	t T
Thru	Accepts Pin	Insertion	Withdrawal	Surface	Accepts Pin	Ī

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	
-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]	1.6 oz Max	0.5 oz Min	-93M	Ø.018 [Ø0.46]	1.6 oz Max	0.5 oz Min	
-80M	Ø.018 [Ø0.46]	1.6 oz Max	0.5 oz Min	-93M	Ø.018 [Ø0.46]	1.6 oz Max	0.5 oz Min	
-491	-	-	-	-500	-	-	-	
-75M	Ø.018 [Ø0.46]	1.6 oz Max	0.5 oz Min	-384M	Ø.018 [Ø0.46]	1.6 oz Max	0.5 oz Min	
-347T	Ø.010 [Ø0.30]	1.0 oz Max	0.3 oz Min	-319T	Ø.010 [Ø0.46]	1.0 oz Max	0.3 oz Min	
				-RB339T	Ø.010 [Ø0.30]	1.0 oz Max	0.3 oz Min	
				-RB338K	Ø.018 [Ø0.46]	1.6 oz Max	0.5 oz Min	
				-RB501T4	Ø.012 [Ø0.30]	1.1 oz Max	0.3 oz Min	
				-RB593	-	-	-	

MOUNTING OPTIONS PCB PCB THRU-HOLE Rollerball® PRE-SOLDER FLOW SURFACE MOUNT PCB PCB ULTRA PCB LOW PROFILE THRU-HOLE Rollerball THRU-HOLE POST-SOLDER FLOW

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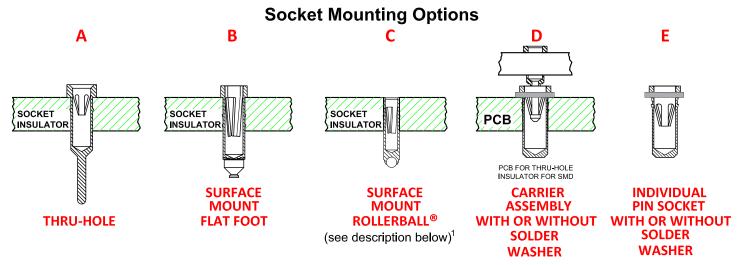
RoHS Compliant *Sockets are not drawn to scale GPIXEL INC. 12/10/2019







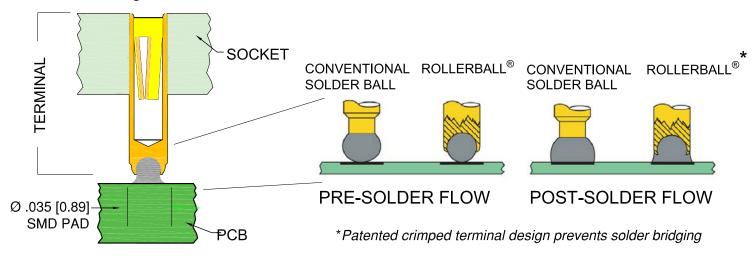




¹Andon's patented Rollerball[®] socket terminal option provides more accurate soldering, a stronger connection, and improved electrical connectivity - especially under shock and vibration - than other solder ball terminal designs. Better yet, it can enable you to avoid expensive rework and scrap - especially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



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Rollerball® U.S. PATENTED CANADIAN PATENTED

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Andon Proprletary Information



Carrier Assemblies







For fast, accurate placement of SIP sockets and ultra-low profile terminals

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



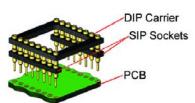
Phase 2: Place carrier assemblies onto PCB; run through your soldering process.



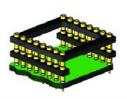
Phase 3:

Remove carrier and plug in your device; discard carrier or send back to our factory for reloading.

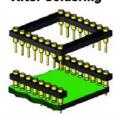
Before Soldering



DIP
During Soldering



After Soldering



ULTRA-LOW PROFILE SIP

Before Soldering



During Soldering

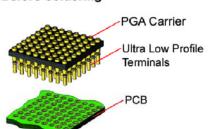


After Soldering

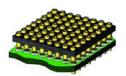


ULTRA-LOW PROFILE PGA

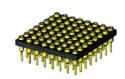
Before Soldering

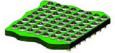


During Soldering



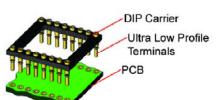
After Soldering



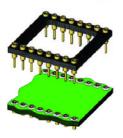


ULTRA LOW PROFILE DIP During Soldering

Before Soldering



After Soldering



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