



High-Reliability Image Sensor Sockets for Gpixel Microelectronics Inc.

Gpixel

Featuring Andon's Unique Senstac[®]Contact

C Andon Electronics 2025

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GPIXEL INC.									
	Andon Part Number	Terminal Type				Figure	Page		
Model Number	Replace "XXX" with Terminal Type	Thru-Hole	Surface Mount	Rollerball®	Pin Ø [in]	Number	Number		
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		
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		
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		
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	0.012	21	9		
GSPRINT4510	10-30-15-454-XXX-R27-L14	274UM	315UM	RB338UM	0.012	16	7		
GSPRINT4521	10-30-15-454-XXX-R27-L14	274UM	315UM	RB338UM	0.012	16	7		
GSPRINT5514BSI	10-30-15-454-XXX-R27-L14	274UM	315UM	RB338UM	0.012	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				Eiguro	Page		
		Thru-Hole	Surface Mount	Rollerball®	Pin Ø [in]	Number	Number		
GMAX32103	10-35-07-209-XXX-R27-L14-HS1	400T4	-	-	.012	30	13		
GSPRINT4510	10-30-15-454-XX-R27-L14-HS1	275UM	-	-	.012	29	13		
GSPRINT4521	10-30-15-454-XX-R27-L14-HS1	275UM	-	-	.012	29	13		

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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

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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



Replace "-XXX" with choice of terminal

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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

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GPIXEL INC. Continued **Image Sensor Socket Footprints**

Units: in [mm]



GUIDE & BASE SHOWN

COVER & HARDWARE SHOWN

1.50 [38.10] REF

1.000 [25.40]

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ANDON (%

1.13

[28.58]

REF

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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

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GPIXEL INC. Continued Image Sensor Socket Footprints



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

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

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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



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

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

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GPIXEL INC. Continued Image Sensor Socket Footprints

Units: in [mm]



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Units: in [mm]





Surface Mount: 683-284-SM-500-R27-L14

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Units: in [mm]







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

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Heat Sink Sockets[™]



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.



Image Sensors

Optoelectronic and Gas sensors

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Heat Sink Sockets[™]



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

PATENTED





PATENTED





SECTION A-A

INSULATOR



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Terminals



- 400T4

7

.009 [0.23] DIA

.088 [2.24]

.025 [0.64]

DIA

.040 [1.02] DIA.

.015 [0.38]

111 [2.81]

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.078 [1.98]

GPIXEL INC. Continued **Image Sensor Terminal Options**

Units: in [mm]

THRU HOLE OPTION



- 347T

.050 [1.26]

.022 [0.56]

DIA

.080 [2.02]

.033 [0.84] DIA

.185 [4.70]

.010 [0.25]

105 [2.67]

.080 [2.03]

.009 [0.23] DIA

Rollerball[®] U.S. PATENT











Technical Information Plating: RoHS COMPLIANT R27 TERMINAL: GOLD / CONTACT: GOLD

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

Units: in [mm]

SURFACE MOUNT OPTION

















- RB501T4









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 -80M	Ø.018 [Ø0.46] Ø.018 [Ø0.46]	9.0 oz Avg. 9.0 oz Avg.	2.0 oz Min 2.0 oz Min	-93M	Ø.018 [Ø0.46] Ø.018 [Ø0.46]	9.0 oz Avg. 9.0 oz Avg.	2.0 oz Min 2.0 oz Min		
-491	-	-	-	-500	-	-	-		
-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







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. PATENT CANADIAN PATENT



Carrier Assembly Configurations



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.



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