

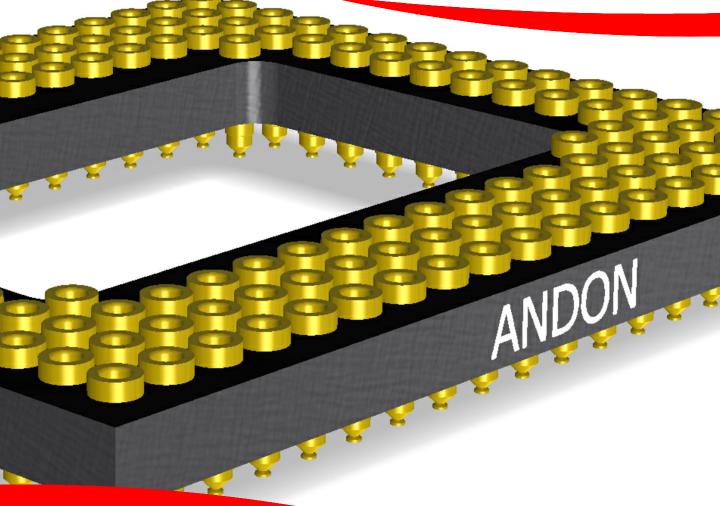






High-Reliability Image Sensor Sockets for Gpixel Inc.





Featuring Andon's Unique Senstac Contact





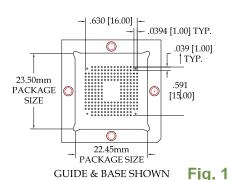


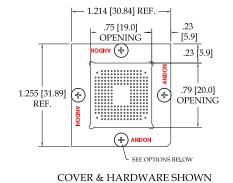


| GPIXEL INC.        |                                  |                         |        |             |       |        |        |  |
|--------------------|----------------------------------|-------------------------|--------|-------------|-------|--------|--------|--|
| GPIXEL INC.        | Andon Part Number                | Terminal Type           |        |             | Pin Ø | Figure | Page   |  |
| Model Number       | Replace "XXX" with Terminal Type | Thru-Hole Surface Mount |        | Rollerball® | [in]  | Number | Number |  |
| GCINE4349          | 692-431-XX-XXX-R27-L14-X         | TH-491                  | SM-500 | SM-RB593    | -     | 22     | 8      |  |
| GL0402             | 694D-76-XX-XXX-R27-L14-X         | TH-491                  | SM-500 | SM-RB593    | -     | 13     | 4      |  |
| GL0816             | 10-37-01-258-XXX-R27-L14         | 400T4                   | 414T4  | RB501T4     | .012  | 6      | 3      |  |
| GLT5009BSI         | 10-45-01-269-XXX-R27-L14         | 400T4                   | 414T4  | RB501T4     | .012  | 20     | 7      |  |
| GLUX1605BSI        | 684-84-XX-XXX-R27-L14-1          | TH-491                  | SM-500 | SM-RB593    | -     | 21     | 7      |  |
| GLUX9701BSI        | 684-84-XX-XXX-R27-L14-1          | TH-491                  | SM-500 | SM-RB593    | -     | 21     | 7      |  |
| 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  | 5      | 2      |  |
| GMAX2505           | 694-230D-XX-XXX-R27-L14-1        | TH-491                  | SM-500 | SM-RB593    | -     | 15     | 5      |  |
| GMAX2509           | 694-230D-XX-XXX-R27-L14-1        | TH-491                  | SM-500 | SM-RB593    | -     | 15     | 5      |  |
| GMAX2518           | 694-230E-XX-XXX-R27-L14-1        | TH-491                  | SM-500 | SM-RB593    | -     | 16     | 6      |  |
| GMAX32103          | 10-35-07A-209-XXX-R27-L14        | 400T4                   | 414T4  | RB501T4     | .012  | 17     | 6      |  |
| GMAX32152          | 10-46-03-183-XXX-R27-L14         | 400T4                   | 414T4  | RB501T4     | .012  | 8      | 3      |  |
| GMAX3265           | 10-26-40-239-XXX-R27-L14         | 400T4                   | 414T4  | RB501T4     | .012  | 11     | 4      |  |
| GMAX3809           | 694-163B-XX-XXX-R27-L14-1        | TH-491                  | SM-500 | SM-RB593    | -     | 14     | 5      |  |
| GMAX4651           | 585-19-23-238-XXX-R27-L14        | 75M                     | 384M   | -           | .018  | 12     | 4      |  |
| GSENSE1516BSI      | 575-27-01-323-XXX-R27-L14        | 01P28                   | 93P28  | RB338K      | .018  | 18     | 6      |  |
| GSENSE2011         | 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      |  |
| GSENSE2020         | 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      |  |
| GSENSE4040/4040BSI | 575-20-21A-140-XXX-R27-L14       | 01M                     | 93M    | RB338K      | .018  | 4      | 2      |  |
| GSENSE6060/6060BSI | 575-38-03A-250-XXX-R27-L14       | 01M                     | 93M    | RB338K      | .018  | 10     | 3      |  |
| GSPRINT4502        | 10-20-06-255-XXX-R27-L14         | 400T4                   | 414T4  | RB501T4     | .012  | 23     | 8      |  |
| GSPRINT4510        | 9-10-30-15-454-XXX-R27-L14-SIP   | 274UM                   | 315UM  | RB338UM     | .012  | 19     | 7      |  |
| GSPRINT4521        | 9-10-30-15-454-XXX-R27-L14-SIP   | 274UM                   | 315UM  | RB338UM     | .012  | 19     | 7      |  |

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

| GPIXEL LNC.            |   |  |   |               |                  |                |    |  |  |
|------------------------|---|--|---|---------------|------------------|----------------|----|--|--|
| GPIXEL<br>Model Number | Andon Part Number<br>Replace "XXX" with Terminal Type | Terminal Type  Thru-Hole Surface Mount Rollerball® |   | Pin Ø<br>[in] | Figure<br>Number | Page<br>Number |    |  |  |
| GMAX32103              | 10-35-07-209-XXX-R27-L14-HS1                          | 400T4  | - | -             | .012             | 25             | 10 |  |  |
| GSPRINT4510            | 10-30-15-454-XXX-R27-L14-HS1                          | 275UM  | - | -             | .012             | 24             | 10 |  |  |
| GSPRINT4521            | 10-30-15-454-XXX-R27-L14-HS1                          | 275UM  | - | -             | .012             | 24             | 10 |  |  |





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

230 Pins

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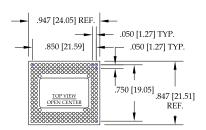




#### **GPIXEL INC.** Continued

#### **Image Sensor Socket Footprints**

Units: in [mm]



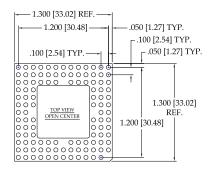


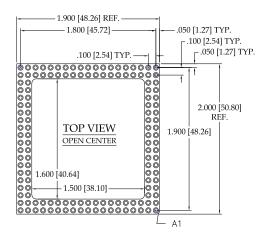
Fig. 2 153 Pins

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 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



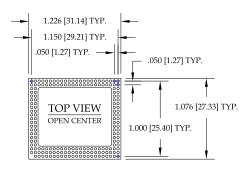


Fig. 4 140 Pins

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. 5 183 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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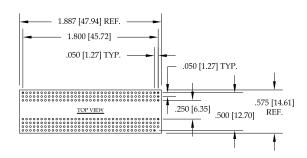




#### **GPIXEL INC.** Continued

#### **Image Sensor Socket Footprints**

Units: in [mm]



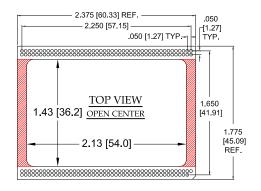


Fig. 6 258 Pins

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. 8 183 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

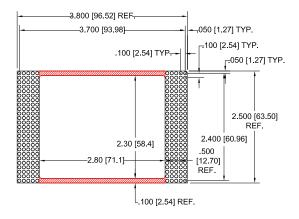


Fig. 10 250 Pins

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

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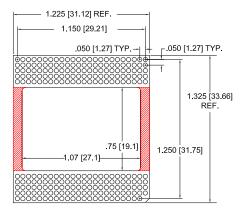




#### **GPIXEL INC.** Continued

#### **Image Sensor Socket Footprints**

Units: in [mm]



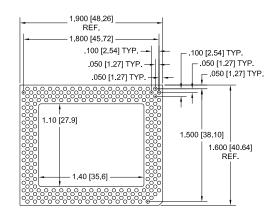


Fig. 11 239 Pins

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

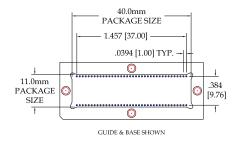
REFER TO LAST PAGE FOR CARRIER OPTIONS RED SECTIONS OF INSULATOR CAN BE OMITTED AND THIS CARRIER USED IN THEIR PLACE:

Carrier/Sips: 9-10-26-40-239-XXX-R27-L14-SIP

——— Replace "-XXX" with choice of terminal

Fig. 12 238 Pins

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



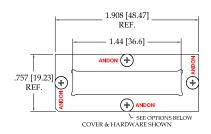


Fig. 13 76 Pins

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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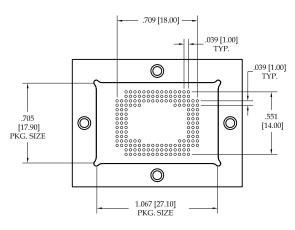


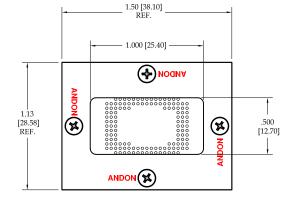


#### **GPIXEL INC.** Continued

## **Image Sensor Socket Footprints**

Units: in [mm]



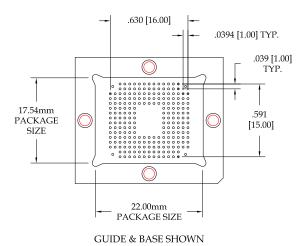


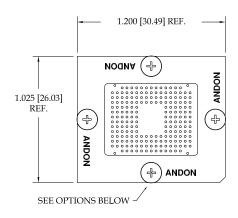
GUIDE & BASE SHOWN

COVER & HARDWARE SHOWN

Fig. 14 163 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





COVER & HARDWARE SHOWN

Fig. 15 230 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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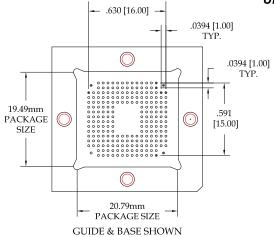




#### **GPIXEL INC.** Continued

#### **Image Sensor Socket Footprints**

Units: in [mm]



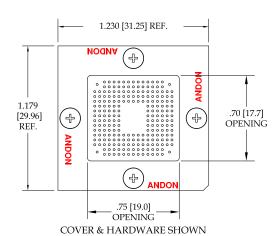
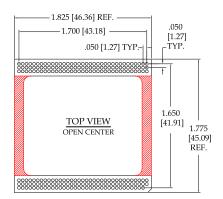


Fig. 16 230 Pins

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



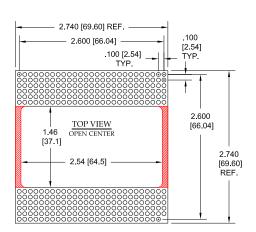


Fig. 17 209 Pins

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. 18 323 Pins

Thru-Hole: 575-27-01-323-01P28-R27-L14
Surface Mount: 575-27-01-323-93P28-R27-L14
Rollerball®: 575-27-01-323-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: 9-575-27-01-323-XXX-R27-L14-SIP

 Replace "-XXX" with choice of terminal

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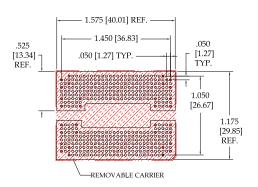




#### **GPIXEL INC.** Continued

#### **Image Sensor Socket Footprints**

Units: in [mm]



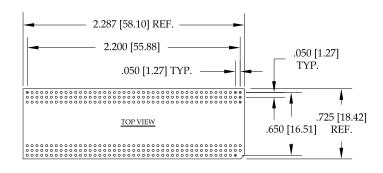
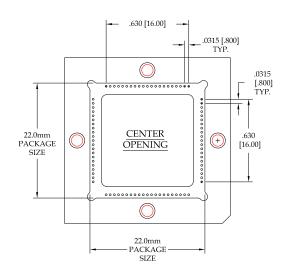


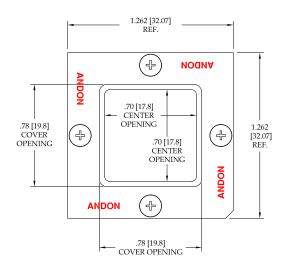
Fig. 19 454 Pins

Thru-Hole: 9-10-30-15-454-274UM-R27-L14-SIP
Surface Mount: 9-10-30-15-454-315UM-R27-L14-SIP
Rollerball®: 9-10-30-15-454-RB338UM-R27-L14-SIP

Fig. 20 269 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. 21 84 Pins

Thru-Hole: 684-84-TH-491-R27-L14-1 Surface Mount: 684-84-SM-500-R27-L14-1 Rollerball®: 684-84-SM-RB593-R27-L14-1

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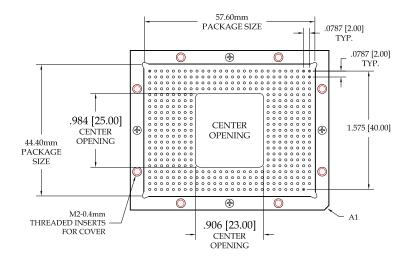


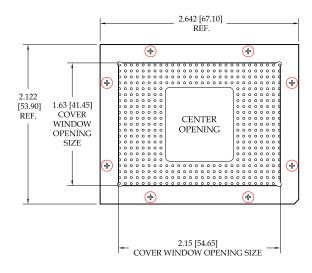


#### **GPIXEL INC.** Continued

#### **Image Sensor Socket Footprints**

Units: in [mm]





GUIDE, HARDWARE & BASE SHOWN

COVER & HARDWARE SHOWN

Fig. 22 431 Pins

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

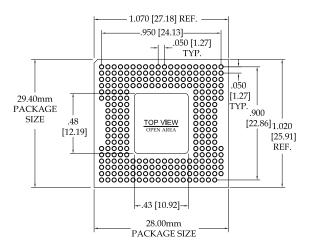


Fig. 23 255 Pins

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

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## Heat Sink Sockets™







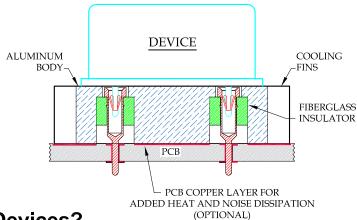
## Why Heat Sink Sockets<sup>™</sup>?

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...

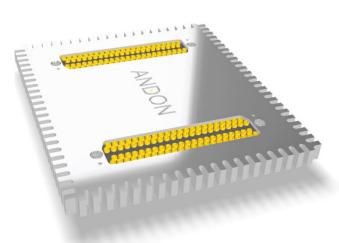
Andon's patented Heat Sink Sockets™ combine the heat dissipation properties of a heat sink with the benefits of using a socket - namely, to avoid exposing the device to high temp solder and contaminating cleaning solutions, as well as to enable easy removal of the device from the PCB without the labor 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?



## PATENTED





## Image Sensors

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"ANDON PROPRIETARY INFORMATION" RoHS Compliant \*Sockets are not drawn to scale GPIXEL INC. 05/10/2023

**Optoelectronic and Gas sensors** 



## Heat Sink Sockets™





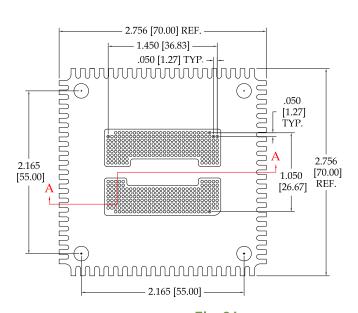


#### **GPIXEL INC.** Continued

## **Image Sensor Socket Footprints**

Units: in [mm]

## **PATENTED**



.083 [2.11]
REF.

PCB COPPER LAYER
FOR HEAT DISSIPATION

ASSEMBLED HEATSINK, DEVICE AND PCB

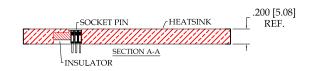
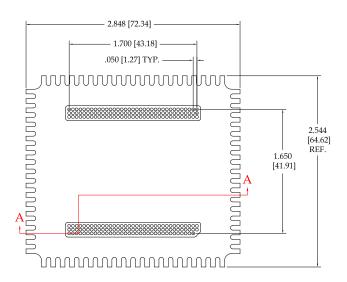


Fig. 24

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

## **PATENTED**



DEVICE

HEATSINK

.174 [4.42]

REF.

PCB COPPER LAYER
FOR HEAT DISSIPATION

ASSEMBLED HEATSINK, DEVICE AND PCB



Fig. 25

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

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## **Terminals**





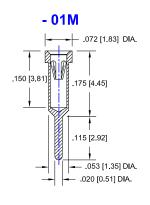


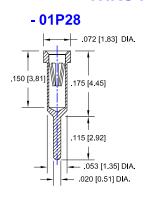
### **GPIXEL INC.** Continued

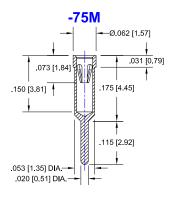
#### **Image Sensor Terminal Options**

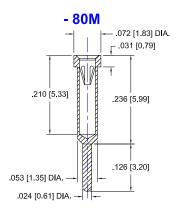
Units: in [mm]

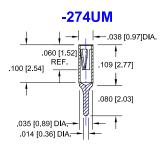
#### THRU HOLE OPTION

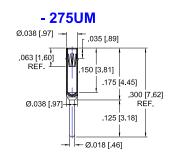


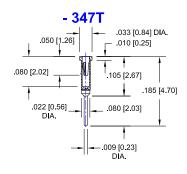


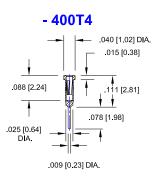


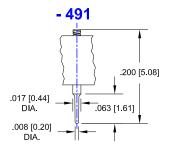












Material:

Insulator: Hi-Temp UL 94V-O

Terminal: Brass, per ASTM-B16

## **Technical Information**

Plating: RoHS COMPLIANT

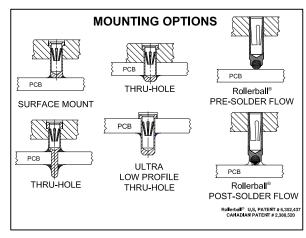
R27 TERMINAL: GOLD / CONTACT: GOLD

**R29 TERMINAL: MATTE TIN / CONTACT: GOLD** 

R32 TERMINAL: MATTE TIN / CONTACT: TIN

**OTHER PLATINGS AVAILABLE** 

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## **Terminals**







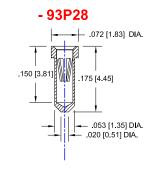
### **GPIXEL INC.** Continued

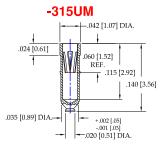
## **Image Sensor Terminal Options**

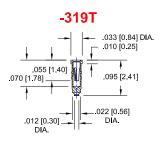
Units: in [mm]

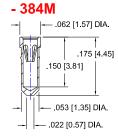
#### SURFACE MOUNT OPTION

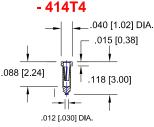


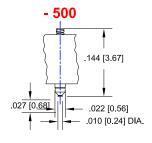


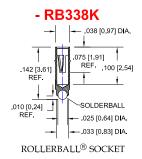


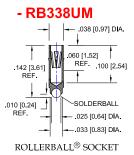


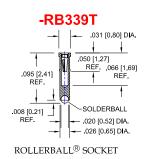


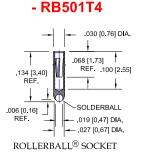


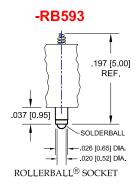












| Terminal Acceptance and Forces |                         |                    |                     |                              |                         |                    |                     |  |
|--------------------------------|-------------------------|--------------------|---------------------|------------------------------|-------------------------|--------------------|---------------------|--|
| Thru Hole Terminals            |                         |                    |                     | Surface Mount Terminals      |                         |                    |                     |  |
| Thru<br>Hole<br>Terminal       | Accepts Pin<br>Diameter | Insertion<br>Force | Withdrawal<br>Force | Surface<br>Mount<br>Terminal | Accepts Pin<br>Diameter | Insertion<br>Force | Withdrawal<br>Force |  |
| -400T4                         | Ø.012 [Ø0.30]           | 1.05 oz Max        | 0.32 oz Min         | -414T4                       | Ø.012 [Ø0.30]           | 1.05 oz Max        | 0.32 oz Min         |  |
| -01M                           | Ø.018 [Ø0.46]           | 1.60 oz Max        | 0.50 oz Min         | -93M                         | Ø.018 [Ø0.46]           | 1.60 oz Max        | 0.50 oz Min         |  |
| -80M                           | Ø.018 [Ø0.46]           | 1.60 oz Max        | 0.50 oz Min         | -93M                         | Ø.018 [Ø0.46]           | 1.60 oz Max        | 0.50 oz Min         |  |
| -491                           | -                       | -                  | -                   | -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         |  |
| -347T                          | Ø.010 [Ø0.30]           | 1.00 oz Max        | 0.30 oz Min         | -319T                        | Ø.010 [Ø0.46]           | 1.00 oz Max        | 0.30 oz Min         |  |
|                                |                         |                    |                     | -RB339T                      | Ø.010 [Ø0.30]           | 1.00 oz Max        | 0.30 oz Min         |  |
|                                |                         |                    |                     | -RB338K                      | Ø.018 [Ø0.46]           | 1.24 oz Max        | 0.50 oz Min         |  |
|                                |                         |                    |                     | -RB501T4                     | Ø.012 [Ø0.30]           | 1.05 oz Max        | 0.32 oz Min         |  |
|                                |                         |                    |                     | -RB593                       | -                       | -                  | -                   |  |

**MOUNTING OPTIONS** PCB PCB THRU-HOLE Rollerball® PRE-SOLDER FLOW SURFACE MOUNT PCB PCB ULTRA PCB LOW PROFILE THRU-HOLE Rollerball<sup>®</sup> THRU-HOLE POST-SOLDER FLOW Rollerball® U.S. PATENT # 6,352,4 CANADIAN PATENT # 2,388,520

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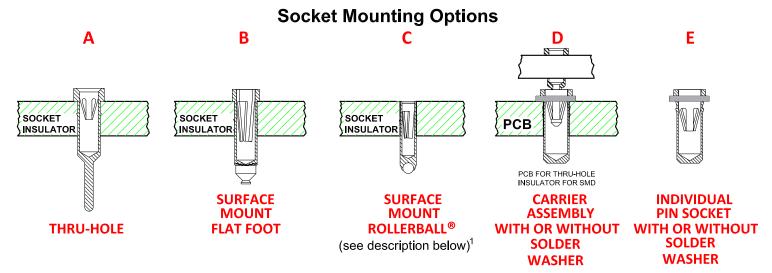
ROHS Compliant







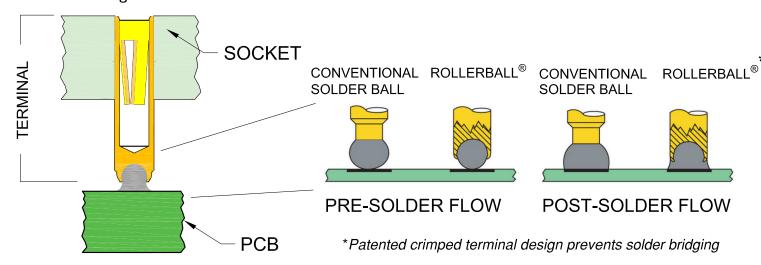




<sup>1</sup>Andon's patented Rollerball socket terminal option provides more accurate soldering, a stronger connection, and improved electrical connectivity - especially under shock and vibration - than other solder ball terminal designs. Better yet, it can enable you to avoid expensive rework and scrap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

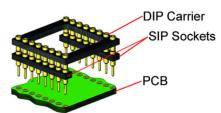


Phase 3:

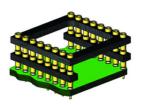
Remove carrier and plug in your device; discard carrier.

#### DIP

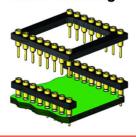
**Before Soldering** 



## **During Soldering**



**After Soldering** 



#### **ULTRA-LOW PROFILE SIP**

**Before Soldering** 



## **During Soldering**

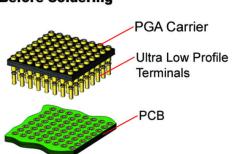


#### After Soldering



#### **ULTRA-LOW PROFILE PGA**

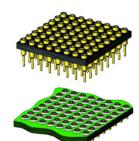
**Before Soldering** 



## **During Soldering**

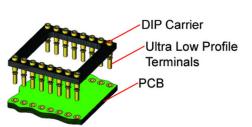


**After Soldering** 

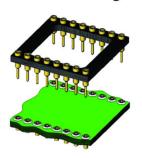


## ULTRA LOW PROFILE DIP During Soldering

#### **Before Soldering**



## After Soldering



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\*Sockets are not drawn to scale GPIXEL INC. 05/10/2023

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