ANDON
INTERCONNECTION SPECIALISTS

A3 ALIA
THE LASER INSTITUTE

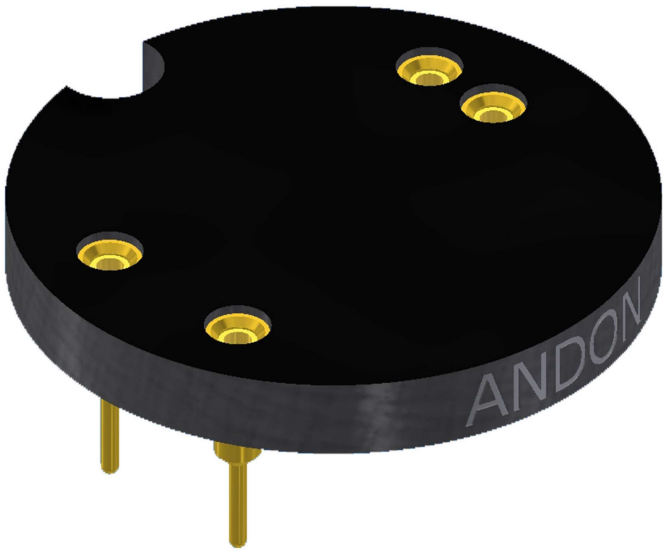
CERTIFIED ISO 9001 COMPANY

LEAD FREE RoHS COMPLIANT

HIGH RELIABILITY OPTOELECTRONIC SOCKETS FOR SST SENSING LTD.

SST

DESIGN • MANUFACTURE • CUSTOMISE • CONFIGURE



Featuring Andon's Unique Senstac™ Contact

SST SENSING LTD.						
Model Number	**Andon Part Number** Replace "XXX" with Terminal Type	**Terminal Type** Thru-Hole	Surface Mount	**Pin Ø [in]**	**Figure Number**	**Page Number**
O2S-FR-T3	R236-0605-01N-XXX-R27-L14	01P28	93P28	.028	2	1
CozIR®-A-Cased	409-205-XXX-R27-L14	01P28	93P28	0.025	6	2
CozIR®-LP2	417-208D-012-XXX-R27-L14	274UM	281UM	0.025	7	2
ExplorIR®-M	R472-SP04-01N-XXX-R27-L14	75S	384S	.020	5	2
LOX-01	R500-SP04-01N-XXX-R27-L14	01P28	93P28	.028	1	1
LOX-02	R500-SP04-01N-XXX-R27-L14	01P28	93P28	.028	1	1
LOX-02-F	R500-SP04-01N-XXX-R27-L14	01P28	93P28	.028	1	1
LOX-02-S	R500-SP04-01N-XXX-R27-L14	01P28	93P28	.028	1	1
O2S-FR-T4-4P	F236-SP04-01-01P28-R27-L14	01P28	93P28	.028	3	1
O2S-FR-T4-5P	F236-SP05-01-01P28-R27-L14	01P28	93P28	.028	4	1
O2S-T3	R236-0605-01N-XXX-R27-L14	01P28	93P28	.028	2	1
SP-A0-010	R200-0404-02T-XXX-R27-L14	01S	93S	.018	8	2
SP-A0-020	R200-0404-02T-XXX-R27-L14	01S	93S	.018	8	2
SP-A0-050	R200-0404-02T-XXX-R27-L14	01S	93S	.018	8	2
SP-A0-250	R200-0404-02T-XXX-R27-L14	01S	93S	.018	8	2
SP-A0-960	R200-0404-02T-XXX-R27-L14	01S	93S	.018	8	2
SprintIR®-6S	R472-SP04-01N-XXX-R27-L14	75S	384S	.020	5	2

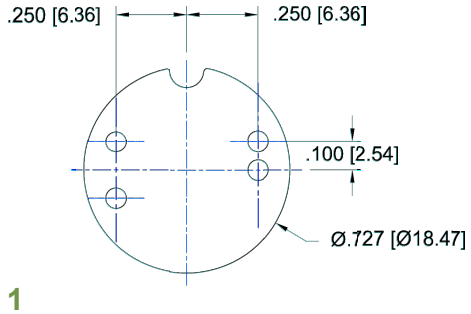


FIG. 1

Thru-Hole: R500-SP04-01N-01P28-R27-L14
Surface Mount: R500-SP04-01N-93P28-R27-L14

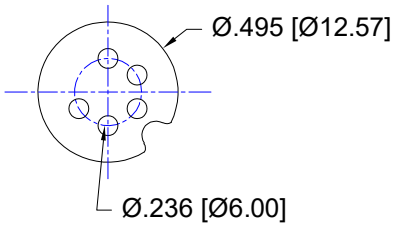


FIG. 2

Thru-Hole: R236-0605-01N-01P28-R27-L14
Surface Mount: R236-0605-01N-93P28-R27-L14

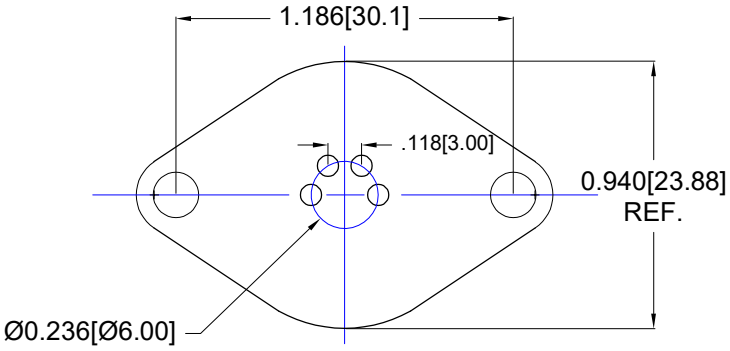


FIG. 3

Thru-Hole: F236-SP04-01-01P28-R27-L14
Surface Mount: F236-SP04-01-93P28-R27-L14

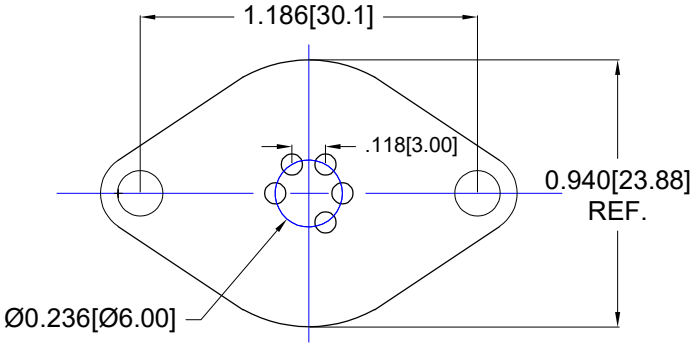


FIG. 4

Thru-Hole: F236-SP05-01-01P28-R27-L14
Surface Mount: F236-SP05-01-93P28-R27-L14

See last page for other mounting types including low profile options.
Heat sink socket available to reduce heat and noise. Contact Andon for details.

Andon Proprietary Information
RoHS Compliant
*Sockets are not drawn to scale **SST SENSING LTD.** 05/14/2026

ANDON ELECTRONICS CORPORATION
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Phone 401-333-0388 Fax 401-333-0287
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Units: in [mm]

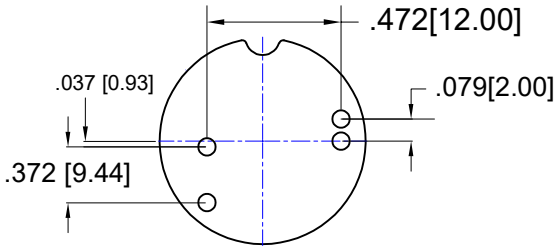

FIG. 5

Thru-Hole: R472-SP04-01N-75S-R27-L14
Surface Mount: R472-SP04-01N-384S-R27-L14

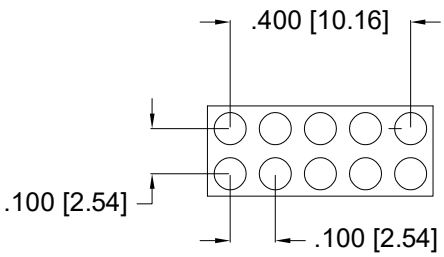

FIG. 6

Thru-Hole: 409-205-01P28-R27-L14
Surface Mount: 409-205-93P28-R27-L14

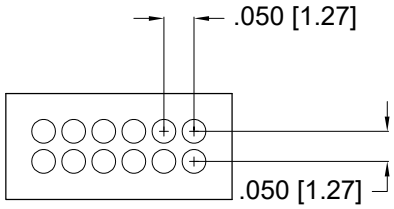

FIG. 7

Thru-Hole: 417-208D-012-274U-R27-L14
Surface Mount: 417-208D-012-281UM-R27-L14

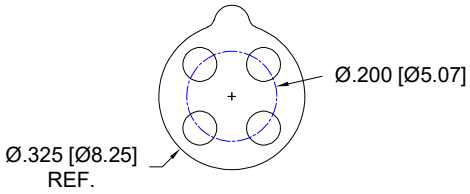

Fig. 8

Thru-Hole: R200-0404-02T-01S-R27-L14
Surface Mount: R200-0404-02T-93S-R27-L14

See last page for other mounting types including low profile options.
Heat sink socket available to reduce heat and noise. Contact Andon for details.

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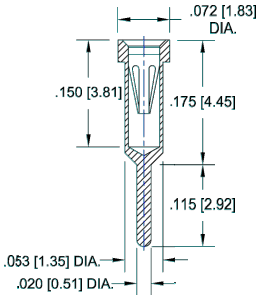
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

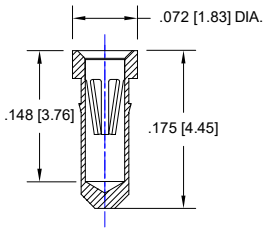
Socket Terminal Options

Units: in [mm]

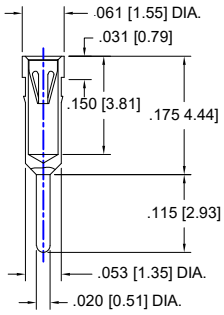
-01P28



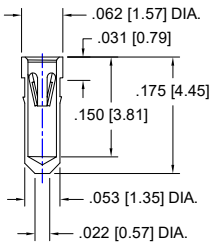
-93P28



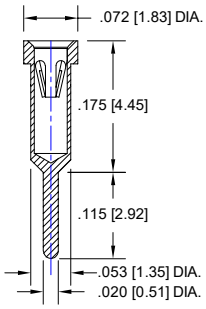
- 75S



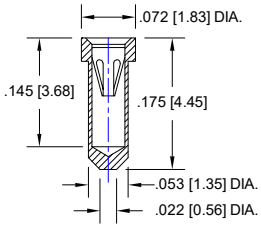
-384S



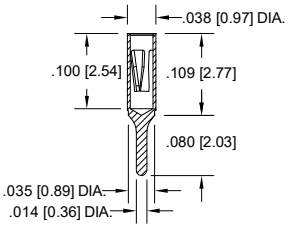
-01S



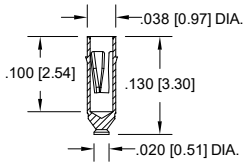
-93S



-274UM



-281UM

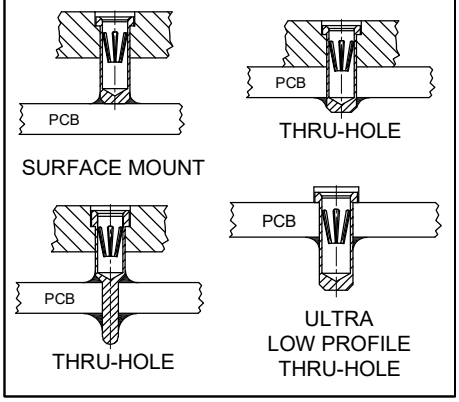


Technical Information

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

Plating: RoHS COMPLIANT
R27 TERMINAL: GOLD / CONTACT: GOLD
OTHER PLATINGS AVAILABLE

MOUNTING OPTIONS



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
-01P28	Ø.028 [Ø0.71]	0.70 oz Avg.	0.35 oz Min	**-93P28**	Ø.028 [Ø0.71]	0.70 oz Avg.	0.35 oz Min
-75S	Ø.018 [Ø0.38]	9.0 oz Avg.	2.0 oz Min	**-384S**	Ø.018 [Ø0.38]	9.0 oz Avg.	2.0 oz Min
-274UM	Ø.015 [Ø0.38]	2.10 oz Avg.	0.5 oz Min	**-281UM**	Ø.015 [Ø0.38]	2.10 oz Avg.	0.5 oz Min
-01S	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min	**-93S**	Ø.018 [Ø0.46]	9.0 oz Avg.	2.0 oz Min

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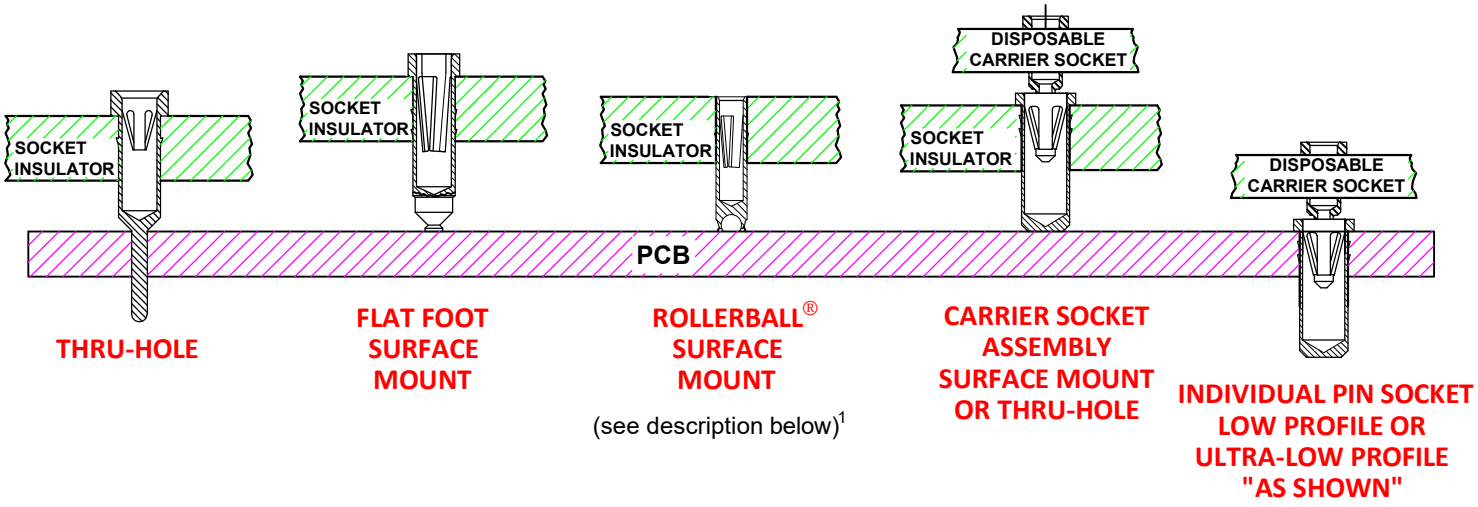
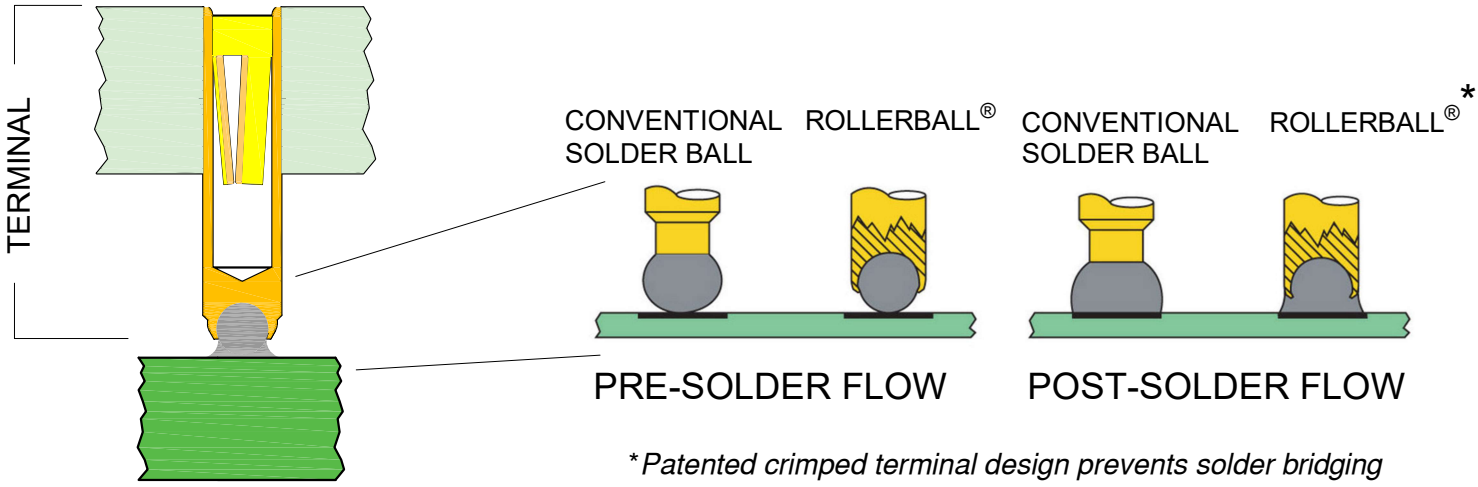
Socket Terminal Options



[1]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.



*Patented crimped terminal design prevents solder bridging

Rollerball® U.S. PATENTED CANADIAN PATENTED

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

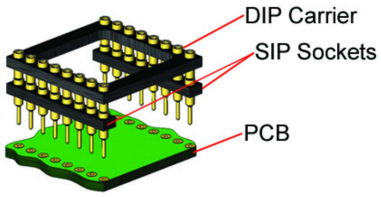
Phase 1:
Receive Carrier Assemblies designed to your pin layout.

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

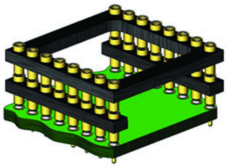
Phase 3:
Remove carrier and plug in your device; discard carrier or send back to our factory for reloading.

DIP

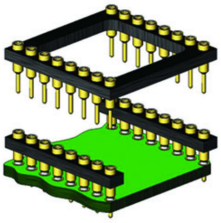
Before Soldering



During Soldering

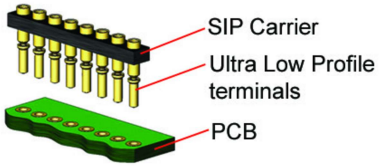


After Soldering

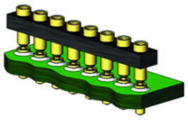


ULTRA-LOW PROFILE SIP

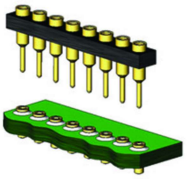
Before Soldering



During Soldering

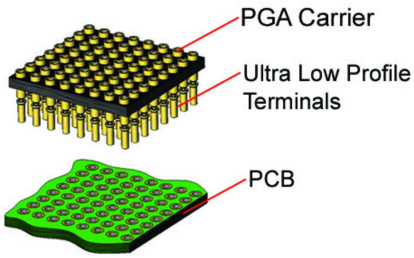


After Soldering

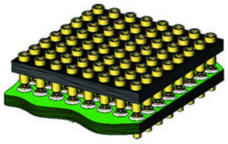


ULTRA-LOW PROFILE PGA

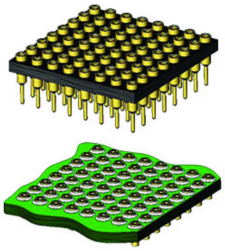
Before Soldering



During Soldering

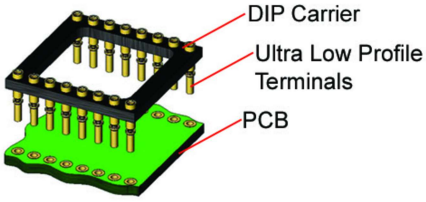


After Soldering

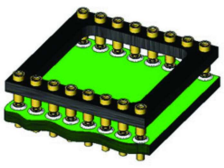


ULTRA LOW PROFILE DIP

Before Soldering



During Soldering



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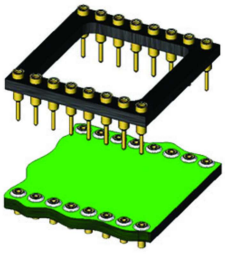

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