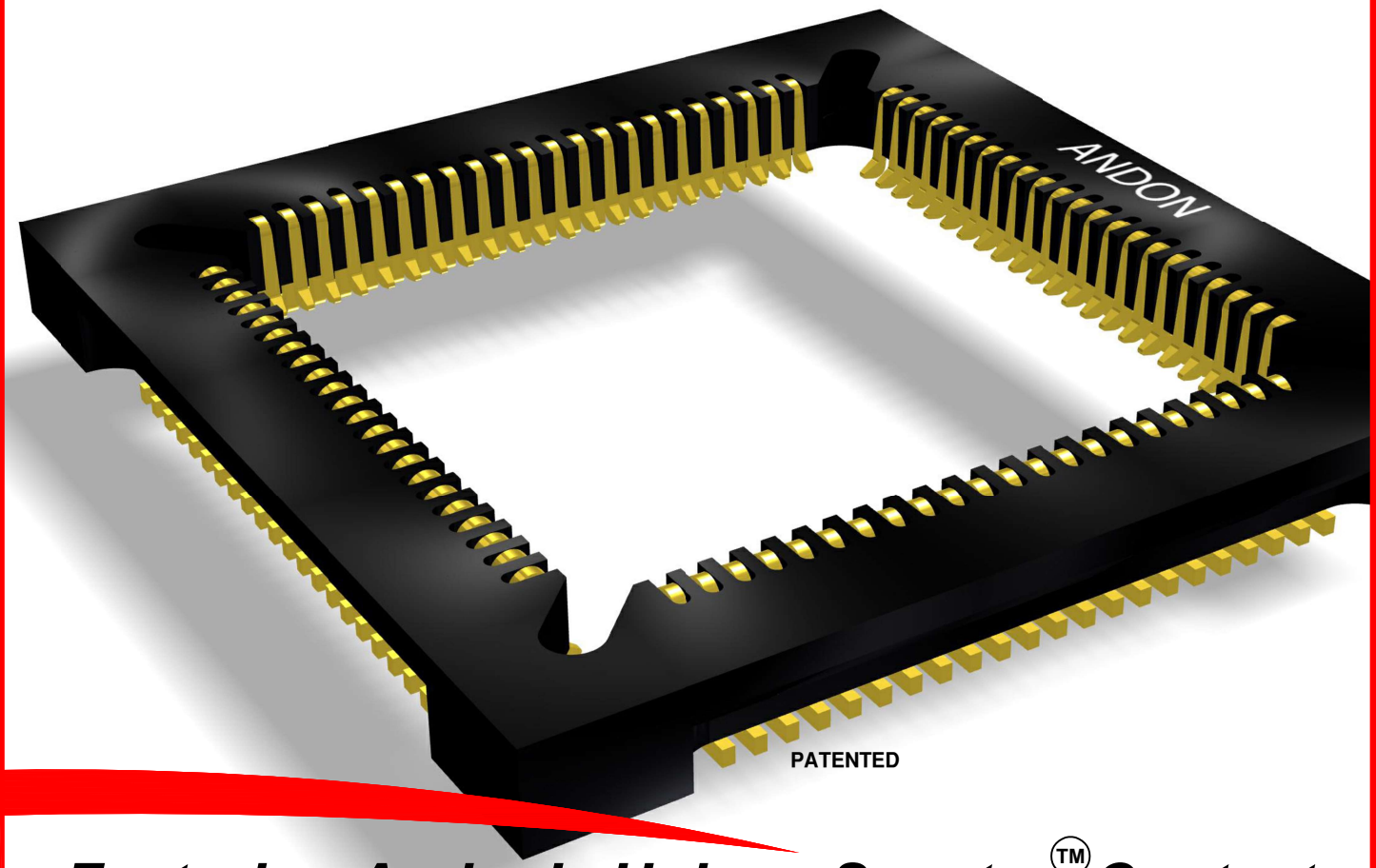
ANDON
INTERCONNECTION SPECIALISTS

High-Reliability Image Sensor Sockets for Luxima Technology LLC.

LUXIMA
TECHNOLOGY



Featuring Andon's Unique Senstac™ Contact

LUXIMA TECHNOLOGY							
LUXIMA TECHNOLOGY Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type Thru-Hole	Surface Mount	Rollerball®	Pin Ø [in]	Figure Number	Page Number
AM1X5	10-26-28-281-XXX-R27-L14	274UM	281UM	RB338UM	.012	1	1
AM1X12	10-26-15-478-XXX-R27-L14	274UM	281UM	RB338UM	.012	7	3
AM5X3	10-26-15-478-XXX-R27-L14	274UM	281UM	RB338UM	.012	7	3
AM41	10-26-28-281-XXX-R27-L14	274UM	281UM	RB338UM	.012	1	1
LUX8M	10-21-11A-203-XXX-R27-L14	274UM	281UM	RB338UM	.012	6	3
LUX51	10-16-14-209-XXX-R27-L14	274UM	281UM	RB338UM	.012	8	3
LUX160	10-22-14A-345-XXX-R27-L14	274UM	281UM	RB338UM	.012	5	2
LUX330	687-88-SM-G10-L14-X	-	-	-	-	3	2
LUX13HS 237 uPGA	10-22-15A-237-XXX-R27-L14	274UM	281UM	RB338UM	.012	4	2
LUX13HS 345 uPGA	10-22-14A-345-XXX-R27-L14	274UM	281UM	RB338UM	.012	5	2
LUX13HS 361 uPGA	10-26-32A-361-XXX-R27-L14	274UM	281UM	RB338UM	.012	2	1
LUX1310	687-88-SM-G10-L14-X	-	-	-	-	3	2
LUX1310-S	687-88-SM-G10-L14-X	-	-	-	-	3	2
LUX19HS	10-22-14A-345-XXX-R27-L14	274UM	281UM	RB338UM	.012	5	2
LUX2100	10-21-11A-203-XXX-R27-L14	274UM	281UM	RB338UM	.012	6	3
LUX2810	10-16-13-238-XXX-R27-L14	274UM	281UM	RB338UM	.012	9	3
LUX4210	694-00692-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	10	4
LUX9512	694-00712-XX-XXX-R27-L14	TH-491	SM-500	SM-RB593	-	11	4

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

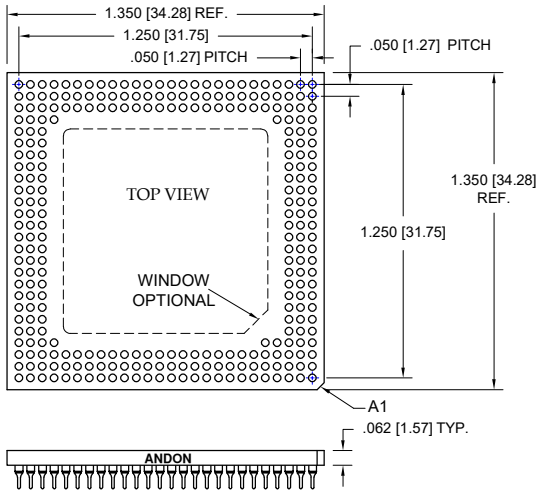


Fig. 1 281 Pins

Thru-Hole: 10-26-28-281-274UM-R27-L14
Surface Mount: 10-26-28-281-281UM-R27-L14
Rollerball®: 10-26-28-281-RB338UM-R27-L14

PART NUMBER WITH OPTIONAL WINDOW

Thru-Hole: 10-26-28**A**-281-274UM-R27-L14 **(With Window)**
Surface Mount: 10-26-28**A**-281-281UM-R27-L14 **(With Window)**
Rollerball®: 10-26-28**A**-281-RB338UM-R27-L14 **(With Window)**

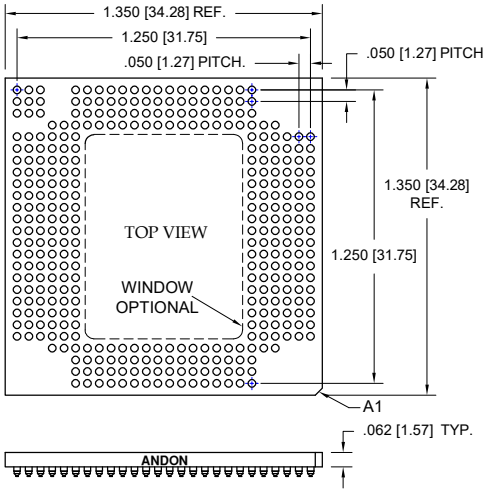


Fig. 2 361 Pins

Thru-Hole: 10-26-32-361-274UM-R27-L14
Surface Mount: 10-26-32-361-281UM-R27-L14
Rollerball®: 10-26-32-361-RB338UM-R27-L14

PART NUMBER WITH OPTIONAL WINDOW

Thru-Hole: 10-26-32**A**-361-274UM-R27-L14 **(With Window)**
Surface Mount: 10-26-32**A**-361-281UM-R27-L14 **(With Window)**
Rollerball®: 10-26-32**A**-361-RB338UM-R27-L14 **(With Window)**

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information
*Sockets are not drawn to scale **LUXIMA TECHNOLOGY** 03/17/2025

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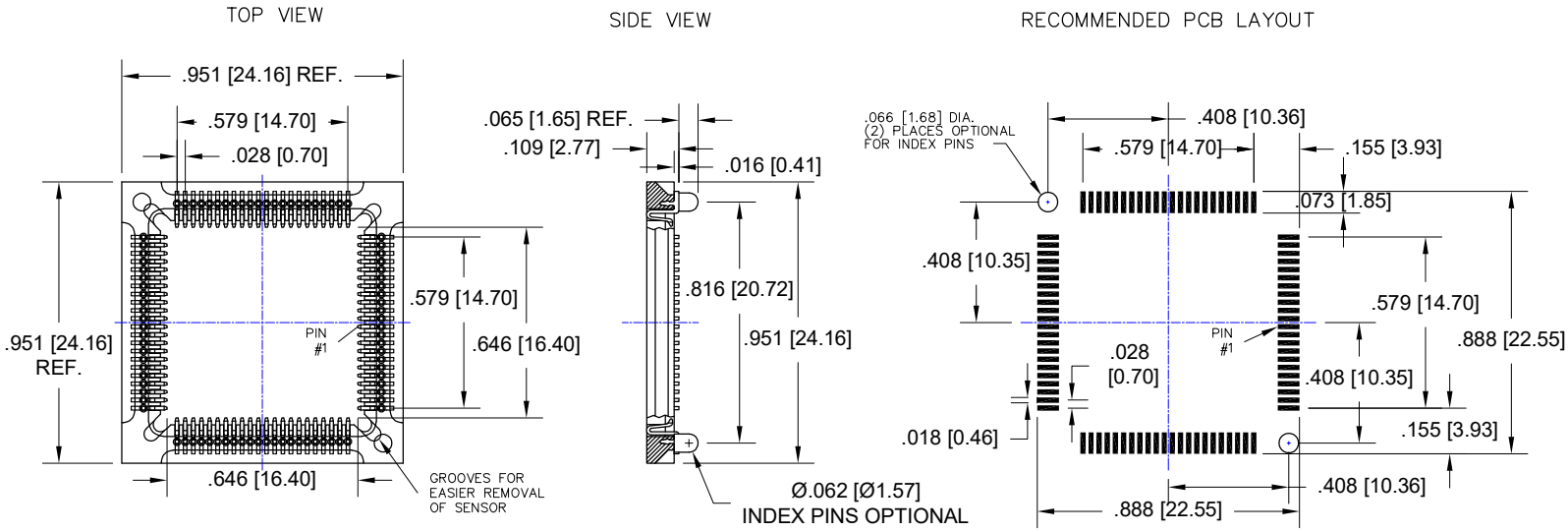
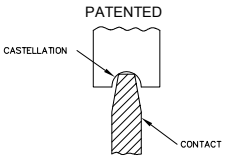
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

LUXIMA TECHNOLOGY/ ALEXIMA *Continued*

Image Sensor Socket Footprints

Units: in [mm]





US PAT# 5,588,847

Fig. 3 88 Contacts

Surface Mount: 687-88-SM-G10-L14-X

Contact Plating = Gold

Replace "-X" with "-1" for index pins or "-0" for none

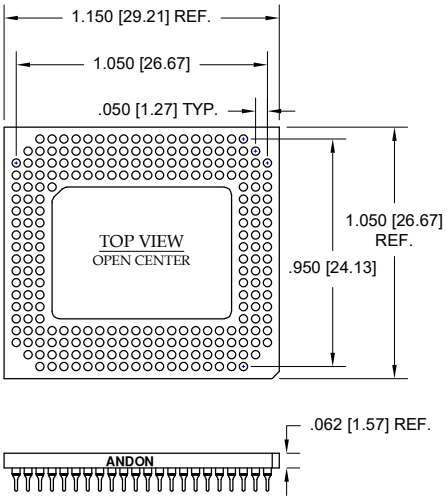


Fig. 4 237 Pins

Thru-Hole: 10-22-15A-237-274UM-R27-L14
Surface Mount: 10-22-15A-237-281UM-R27-L14
Rollerball®: 10-22-15A-237-RB338UM-R27-L14

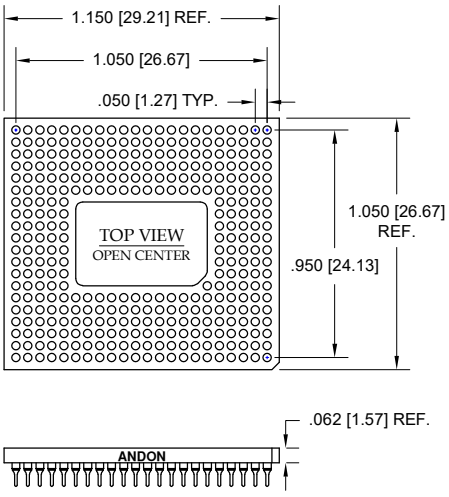


Fig. 5 345 Pins

Thru-Hole: 10-22-14A-345-274UM-R27-L14
Surface Mount: 10-22-14A-345-281UMR27-L14
Rollerball®: 10-22-14A-345-RB338UM-R27-L14

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RoHS Compliant

Andon Proprietary Information

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LUXIMA TECHNOLOGY/ ALEXIMA *Continued*

Socket Terminal Details

Units: in [mm]

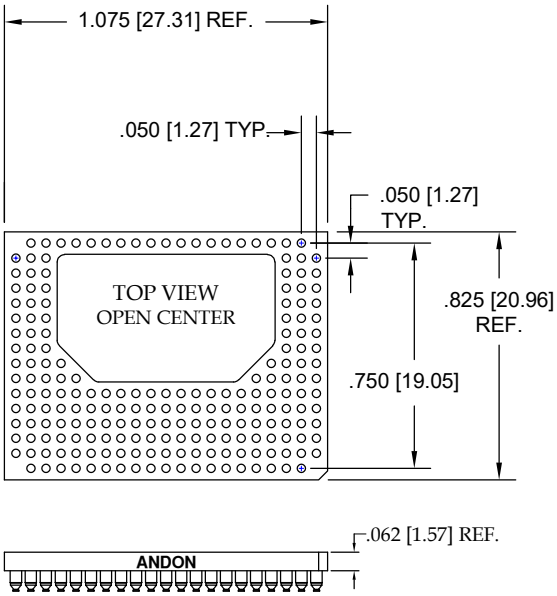

Fig. 6 203 Pins

Thru-Hole: 10-21-11A-203-274UM-R27-L14
Surface Mount: 10-21-11A-203-281UM-R27-L14
Rollerball®: 10-21-11A-203-RB338UM-R27-L14

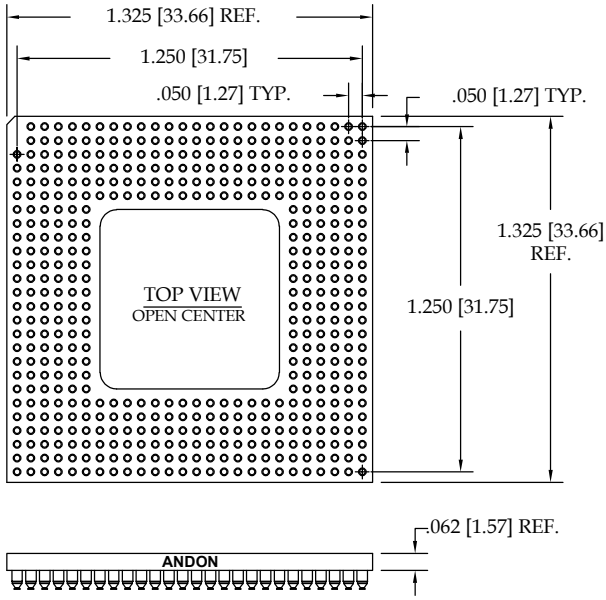

Fig. 7 478 Pins

Thru-Hole: 10-26-15-478-274UM-R27-L14
Surface Mount: 10-26-15-478-281UM-R27-L14
Rollerball®: 10-26-15-478-RB338UM-R27-L14

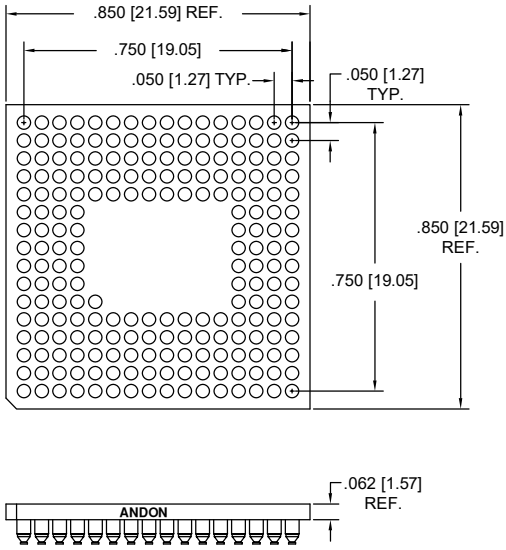

Fig. 8 209 Pins

Thru-Hole: 10-16-14-209-274UM-R27-L14
Surface Mount: 10-16-14-209-281UM-R27-L14
Rollerball®: 10-16-14-209-RB338UM-R27-L14

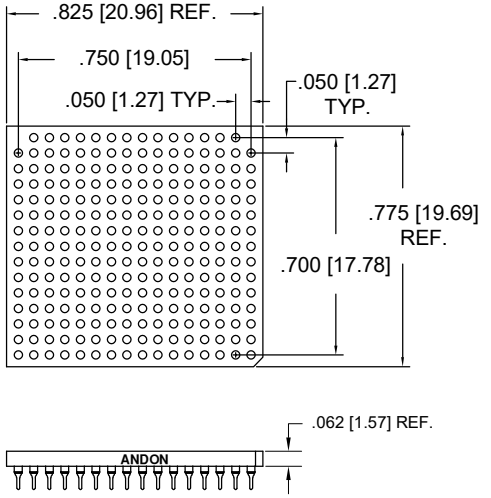

Fig. 9 238 Pins

Thru-Hole: 10-16-13-238-274UM-R27-L14
Surface Mount: 10-16-13-238-281UM-R27-L14
Rollerball®: 10-16-13-238-RB338UM-R27-L14

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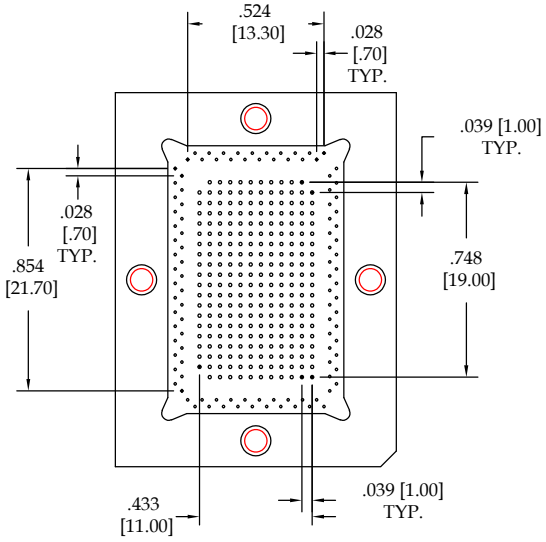
Email Info@andonelect.com

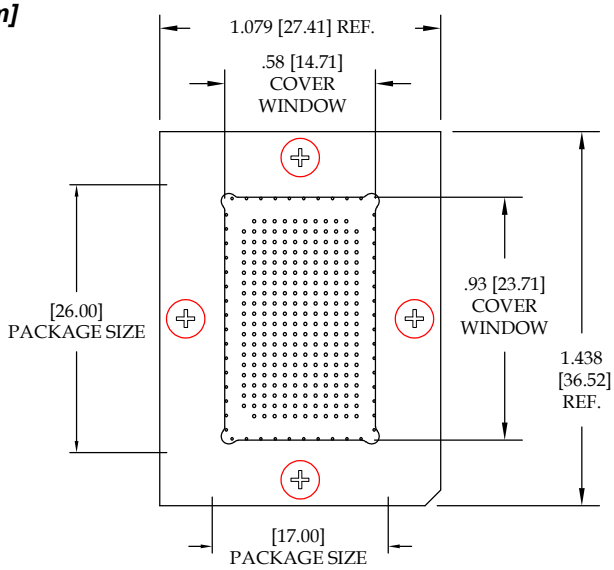
LUXIMA TECHNOLOGY/ ALEXIMA *Continued*

Socket Terminal Details

Units: in [mm]



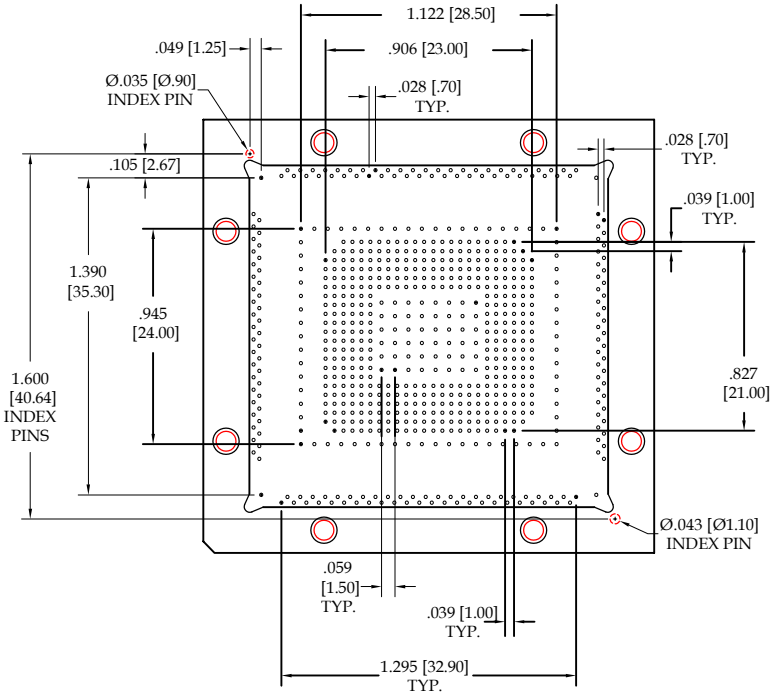
GUIDE & BASE SHOWN



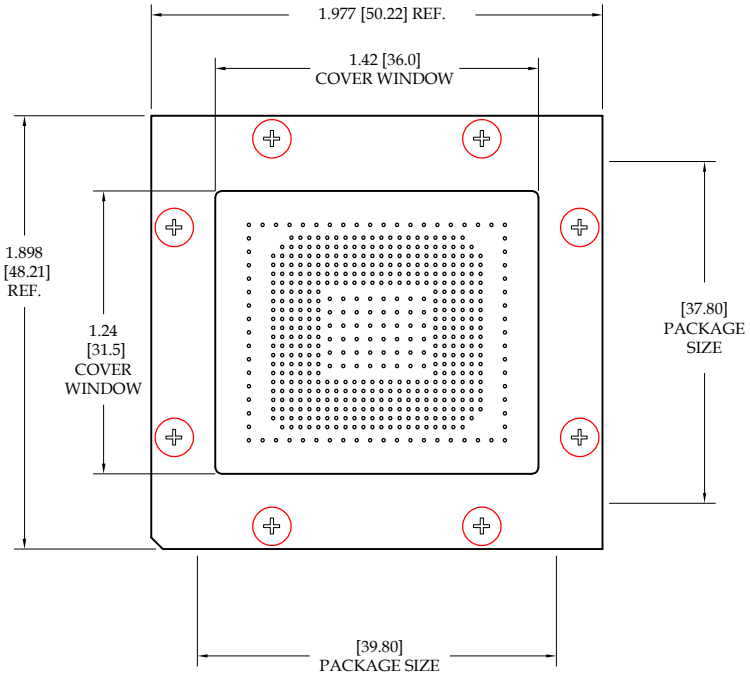
COVER & HARDWARE SHOWN

Fig. 10 341 Pins

Thru-Hole: 694-00692-TH-491-R27-L14-1
Surface Mount: 694-00692-SM-500-R27-L14-1
Rollerball®: 694-00692-SM-RB593-R27-L14-1



GUIDE & BASE SHOWN



COVER & HARDWARE SHOWN

Fig. 11 696 Pins

Thru-Hole: 694-00712-TH-491-R27-L14-1
Surface Mount: 694-00712-SM-500-R27-L14-1
Rollerball®: 694-00712-SM-RB593-R27-L14-1

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Andon Proprietary Information
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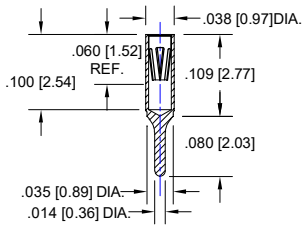
LUXIMA TECHNOLOGY/ ALEXIMA *Continued*

Socket Terminal Details

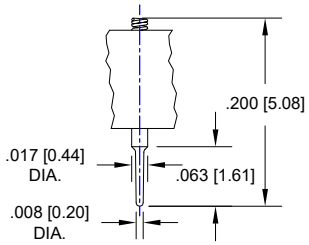
Cross Section View Shown Units: in[mm]

THRU HOLE OPTION

-274UM

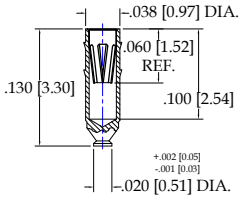


TH- 491

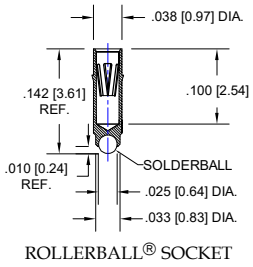


SURFACE MOUNT OPTION

-281UM

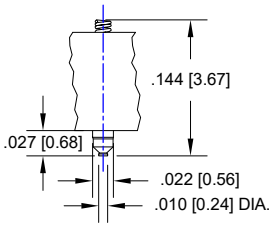


-RB338UM

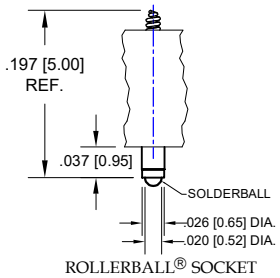


ROLLERBALL® SOCKET

SM-500



SM-RB593



ROLLERBALL® SOCKET

Technical Information

Material:

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

SOCKET

Plating: RoHS COMPLIANT

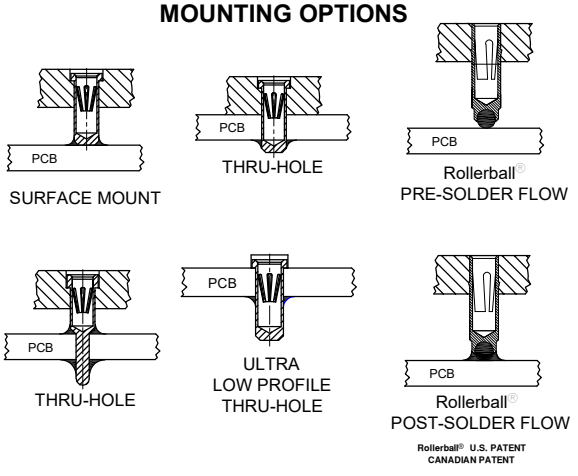
R27 TERMINAL: GOLD / CONTACT: GOLD
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN
OTHER PLATINGS AVAILABLE

Terminal Acceptance and Forces per Contact

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
-274UM	Ø.018 [Ø0.46]	2.1 oz Avg.	0.53 oz Min	-281UM	Ø.018 [Ø0.46]	2.1 oz Avg.	0.53 oz Min
				-RB338UM	Ø.018 [Ø0.46]	2.1 oz Avg.	0.53 oz Min

PCB

MOUNTING OPTIONS



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CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information

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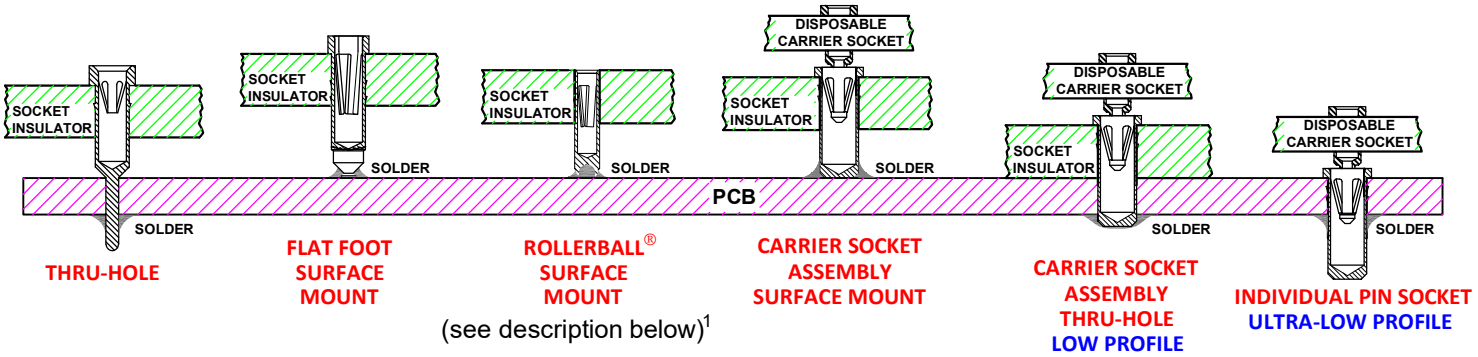
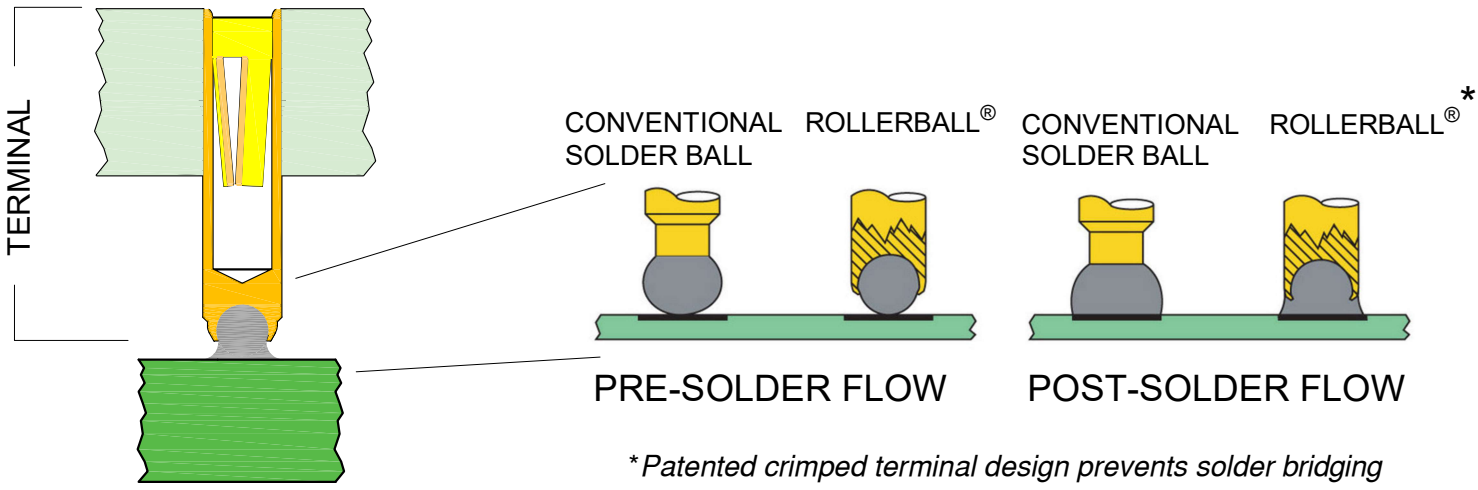


[1]Andon's patented Rollerball® socket terminal option provides more accurate soldering, a stronger connection, and improved electrical connectivity - especially under shock and vibration - than other solder ball terminal designs. Better yet, it can enable you to avoid expensive rework and scrap - especially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

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INTERCONNECTION SPECIALISTS

Carrier Assembly Configurations

CERTIFIED ISO 9001 COMPANY · LEAD FREE RoHS COMPLIANT · ala advancing VISION+IMAGING MEMBER

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

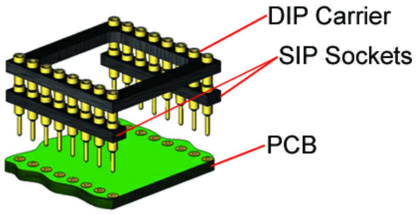
Phase 1:
Receive Carrier Assemblies designed to your pin layout.

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

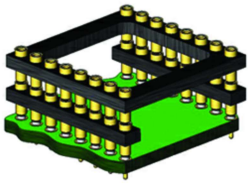
Phase 3:
Remove carrier and plug in your device; discard carrier.

DIP

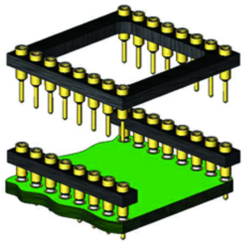
Before Soldering



During Soldering

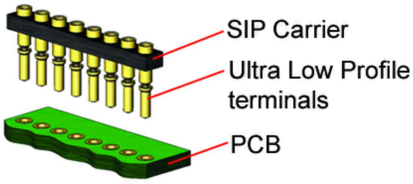


After Soldering

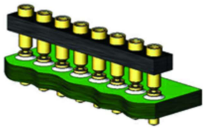


ULTRA-LOW PROFILE SIP

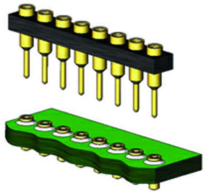
Before Soldering



During Soldering

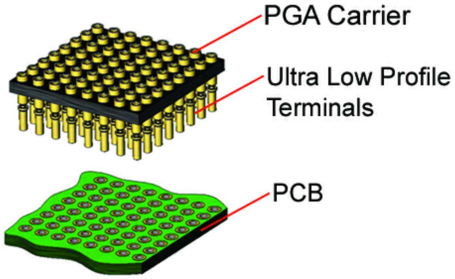


After Soldering

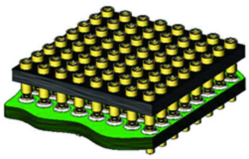


ULTRA-LOW PROFILE PGA

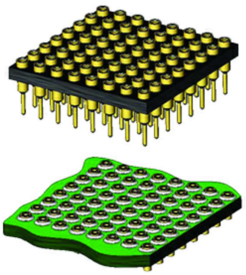
Before Soldering



During Soldering

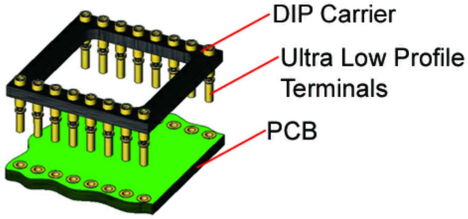


After Soldering

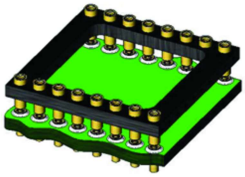


ULTRA LOW PROFILE DIP

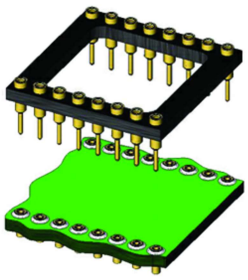
Before Soldering



During Soldering



After Soldering



Andon Proprietary Information
RoHS Compliant

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