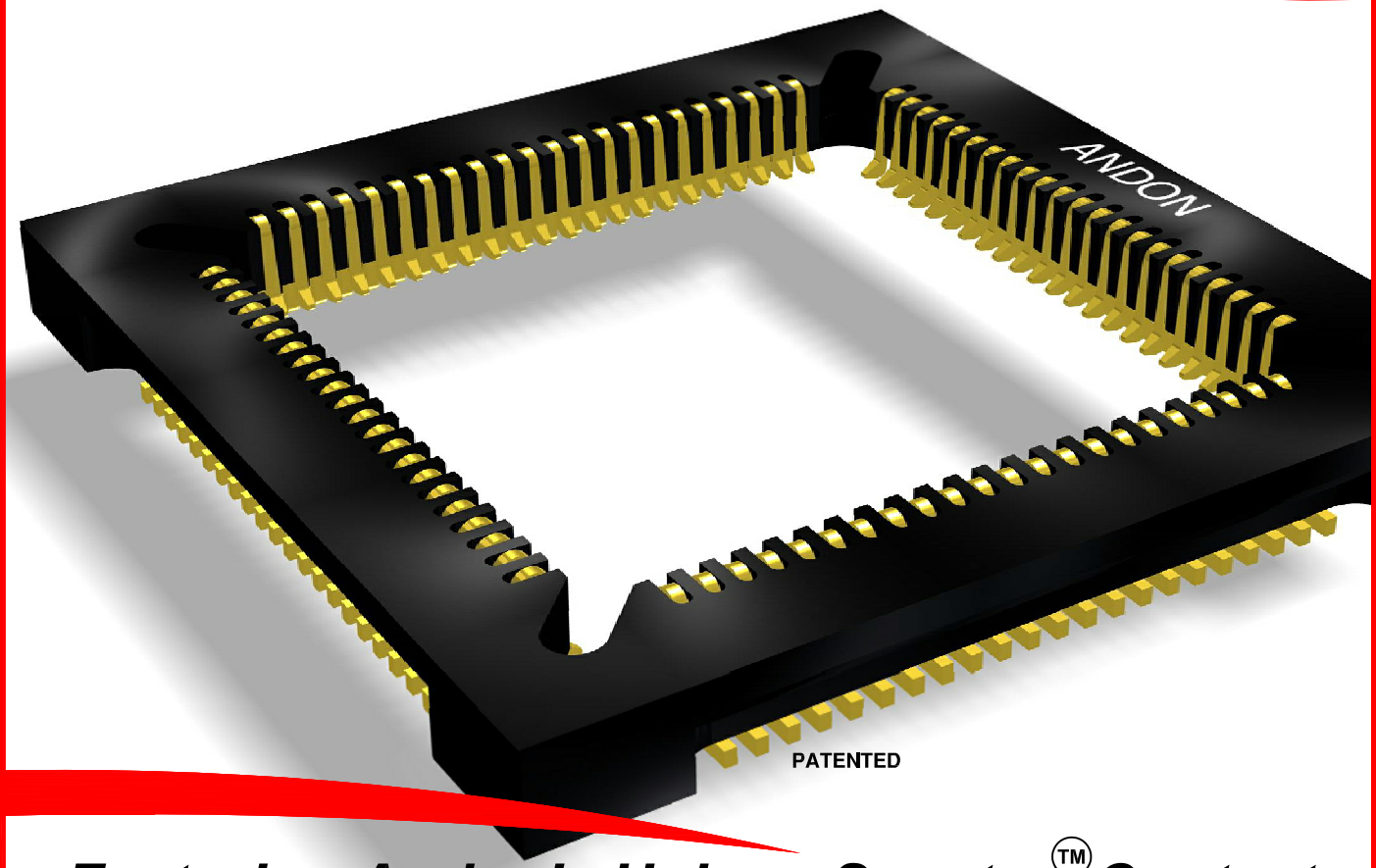
ANDON
INTERCONNECTION SPECIALISTS

High-Reliability Image Sensor Sockets for Luxima Technology LLC.

LUXIMA
TECHNOLOGY



Featuring Andon's Unique Senstac™ Contact

© Andon Electronics 2020

B.C.E. S.r.l. - Via Regina Pacis, 54/c - Sassuolo (MO) - I 41049 - Italy
Tel.: 0536 811616 - Fax: 0536 811500 - Web: www.bce.it - E-mail: bce@bce.it

LUXIMA TECHNOLOGY/ ALEXIMA							
LUXIMA TECHNOLOGY/ ALEXIMA 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

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

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

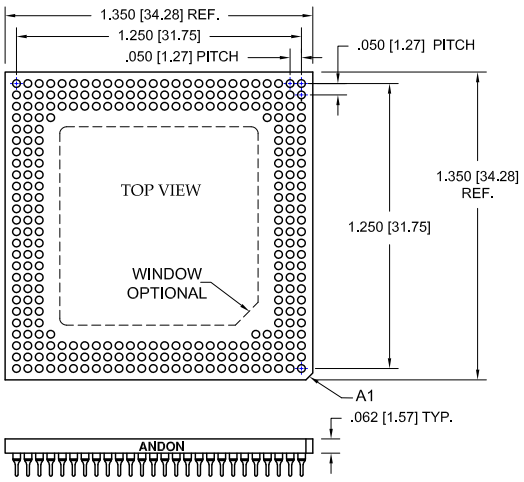


Fig. 1 281 Pins

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)**

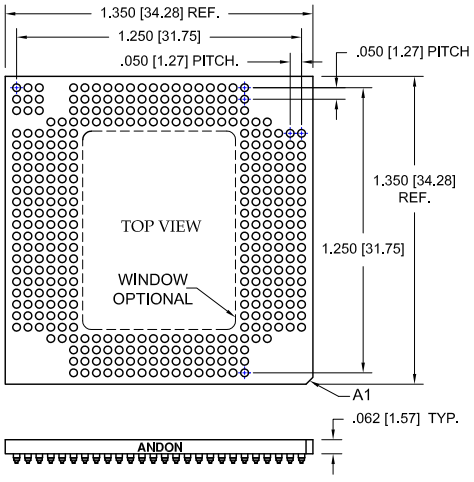


Fig. 2 361 Pins

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)**

©Copyright 2020 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information
*Sockets are not drawn to scale **LUXIMA TECHNOLOGY/ ALEXIMA** 10/05/2020

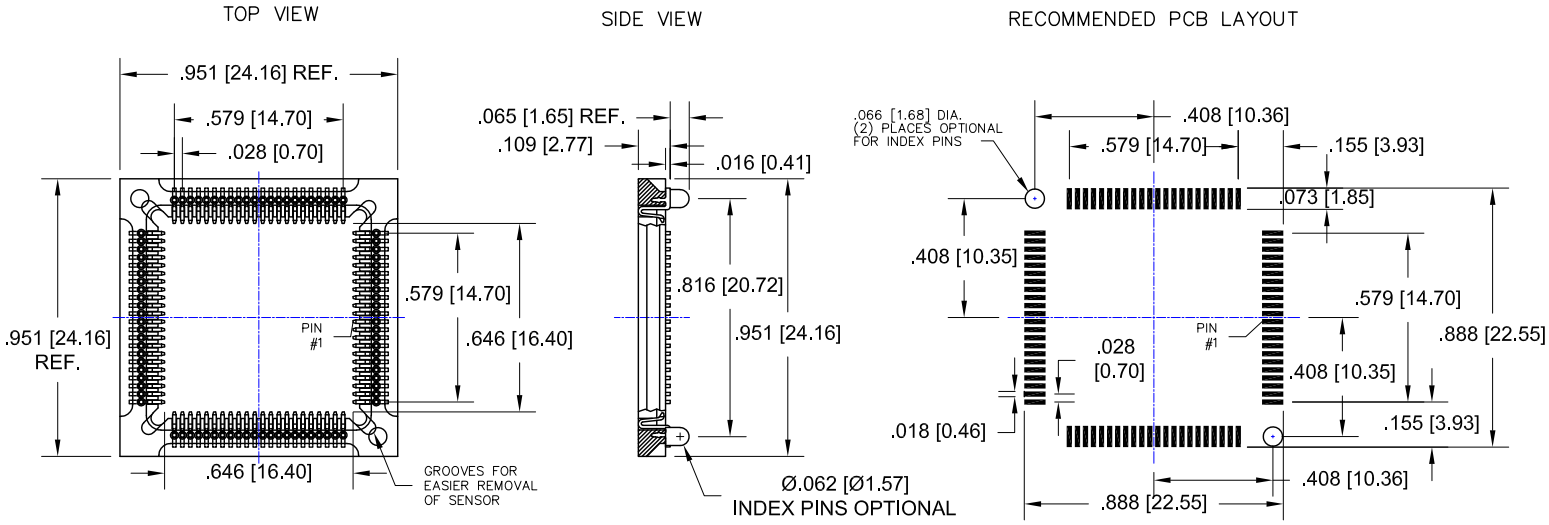
ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America
www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

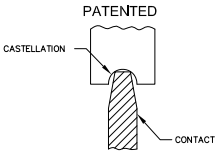
B.C.E. S.r.l. - Via Regina Pacis, 54/c - Sassuolo (MO) - I 41049 - Italy
Tel.: 0536 811616 - Fax: 0536 811500 - Web: www.bce.it - E-mail: bce@bce.it

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

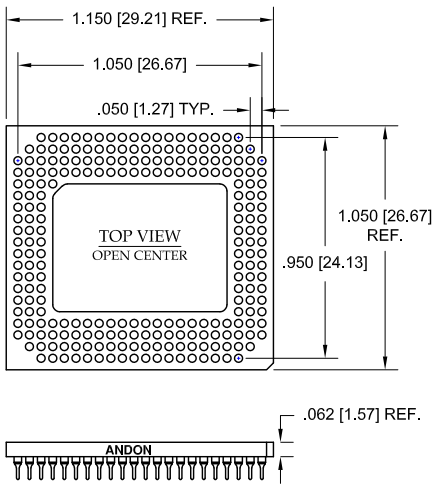


Fig. 4 237 Pins

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

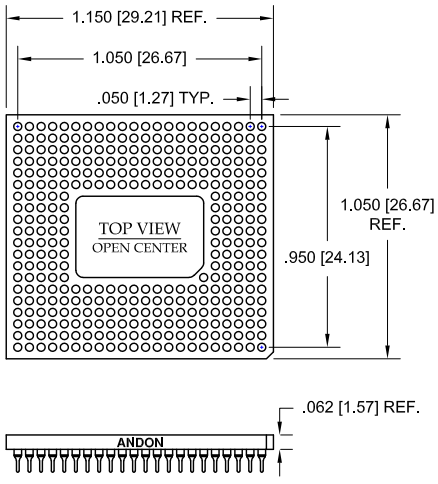


Fig. 5 345 Pins

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

©Copyright 2020 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant

Andon Proprietary Information

*Sockets are not drawn to scale **LUXIMA TECHNOLOGY/ ALEXIMA** 10/05/2020

LUXIMA TECHNOLOGY/ ALEXIMA *Continued*

Socket Terminal Details

Units: in [mm]

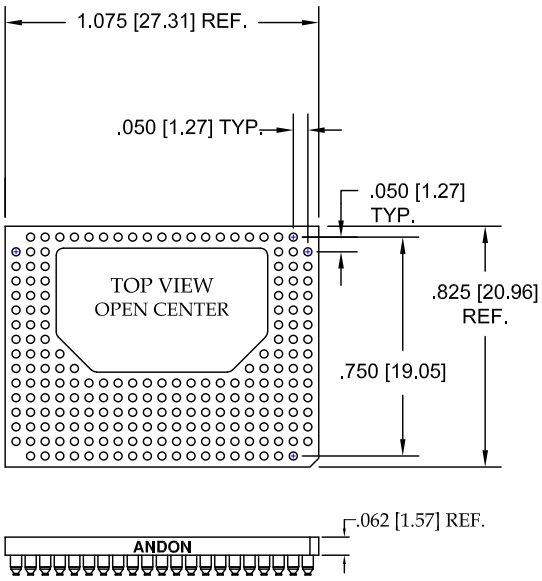


Fig. 6 203 Pins

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

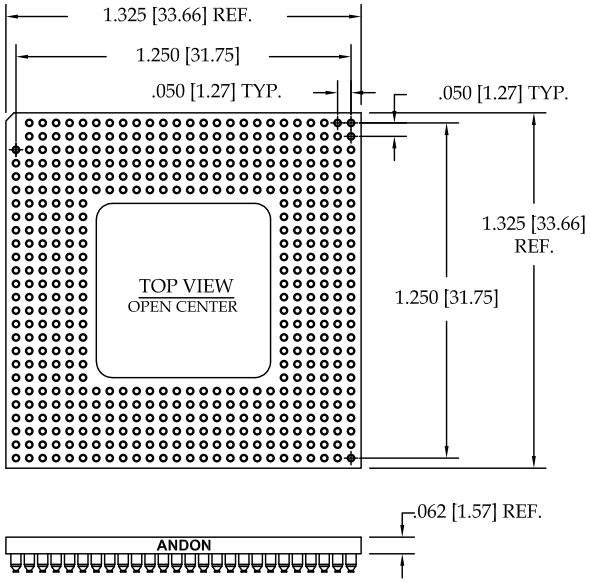


Fig. 7 478 Pins

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

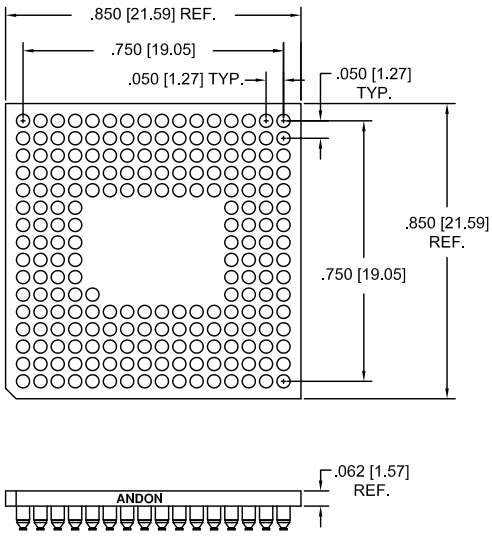


Fig. 8 209 Pins

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

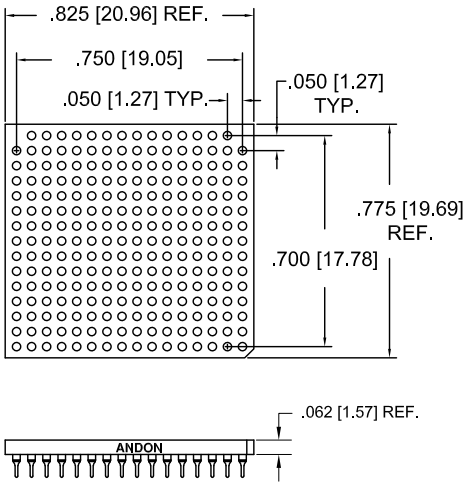


Fig. 9 238 Pins

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

©Copyright 2020 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information

*Sockets are not drawn to scale LUXIMA TECHNOLOGY/ ALEXIMA 10/05/2020

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America
www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

B.C.E. S.r.l. - Via Regina Pacis, 54/c - Sassuolo (MO) - I 41049 - Italy
Tel.: 0536 811616 - Fax: 0536 811500 - Web: www.bce.it - E-mail: bce@bce.it

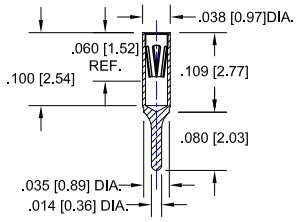
LUXIMA TECHNOLOGY/ ALEXIMA *Continued*

Socket Terminal Details

Cross Section View Shown Units: in[mm]

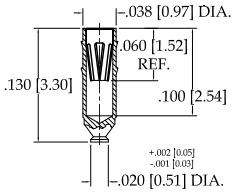
THRU HOLE OPTION

-274UM

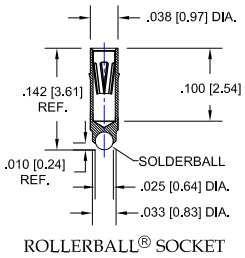


SURFACE MOUNT OPTION

-281UM



-RB338UM



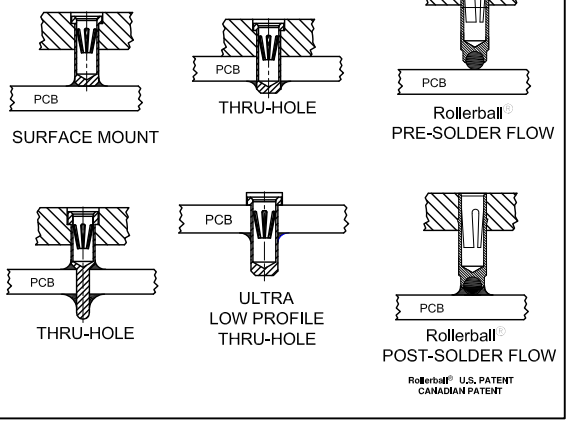
ROLLERBALL® SOCKET

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
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN
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
-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

©Copyright 2020 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

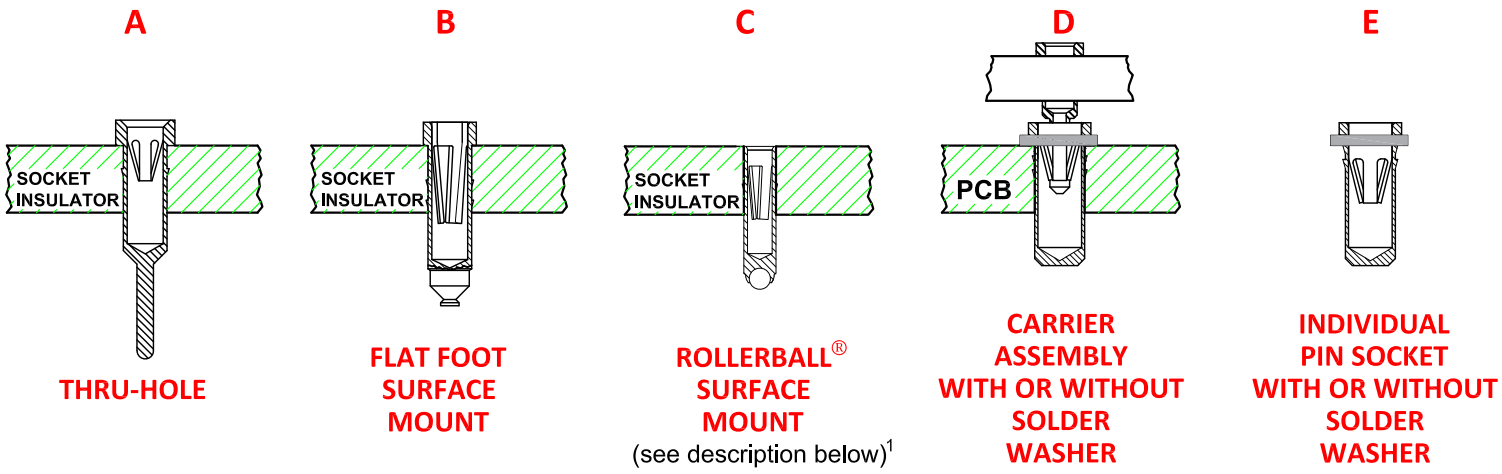
Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information
*Sockets are not drawn to scale **LUXIMA TECHNOLOGY/ ALEXIMA** 10/05/2020

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America
www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

B.C.E. S.r.l. - Via Regina Pacis, 54/c - Sassuolo (MO) - I 41049 - Italy
Tel.: 0536 811616 - Fax: 0536 811500 - Web: www.bce.it - E-mail: bce@bce.it

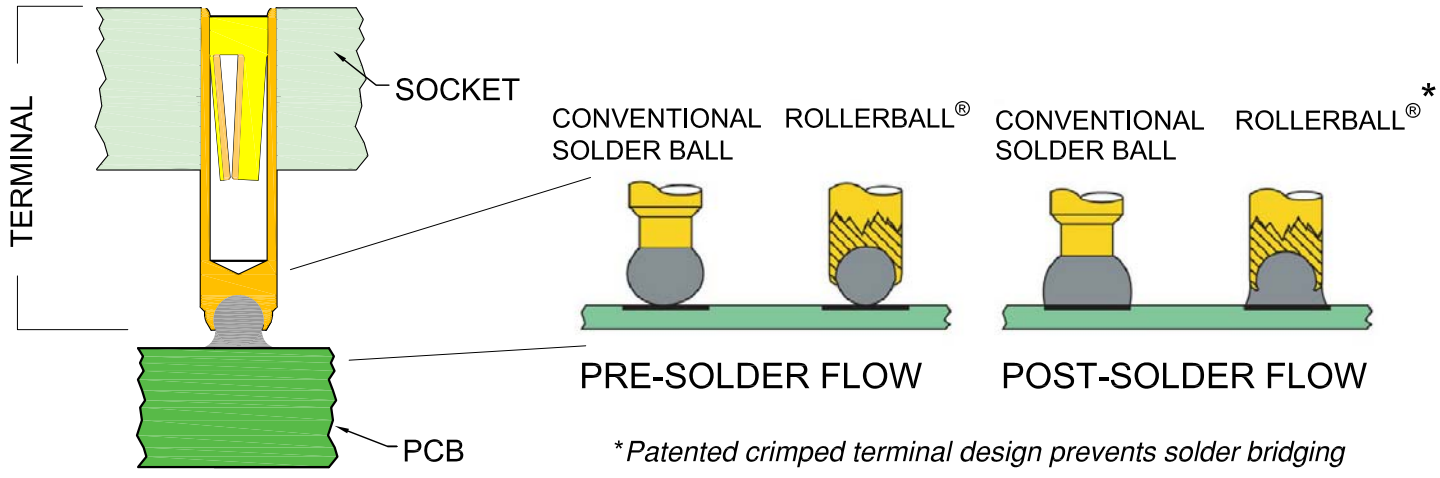
Socket Terminal Options



[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*

©Copyright 2020 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

Rollerball® U.S. PATENTED
CANADIAN PATENTED

RoHS Compliant
Andon Proprietary Information

*Sockets are not drawn to scale LUXIMA TECHNOLOGY/ ALEXIMA 10/05/2020

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America
www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

B.C.E. S.r.l. - Via Regina Pacis, 54/c - Sassuolo (MO) - I 41049 - Italy
Tel.: 0536 811616 - Fax: 0536 811500 - Web: www.bce.it - E-mail: bce@bce.it

ANDON INTERCONNECTION SPECIALISTS

Carrier Assembly Configurations

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

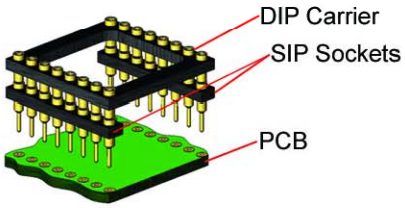
Phase 1:
Receive Carrier Assemblies designed to your pin layout.

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

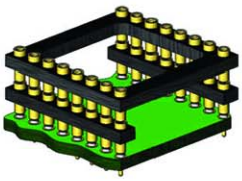
Phase 3:
Remove carrier and plug in your device; discard carrier.

DIP

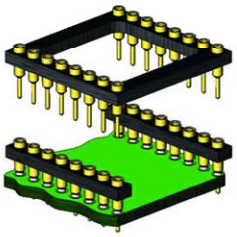
Before Soldering



During Soldering



After Soldering

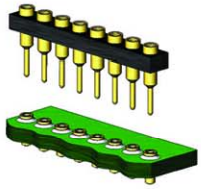


ULTRA-LOW PROFILE SIP

Before Soldering

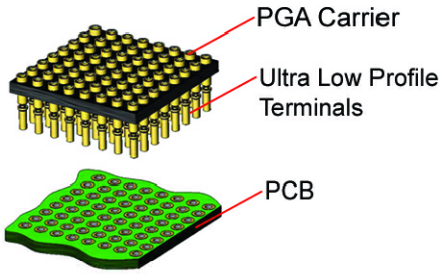
During Soldering

After Soldering

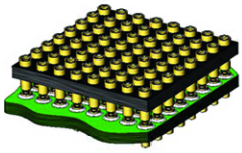


ULTRA-LOW PROFILE PGA

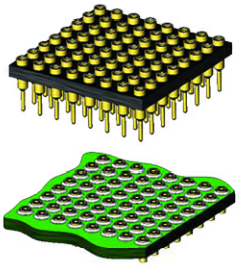
Before Soldering



During Soldering

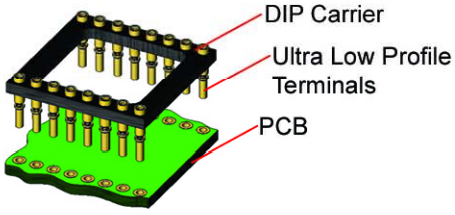


After Soldering

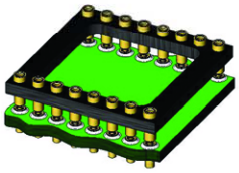


ULTRA LOW PROFILE DIP

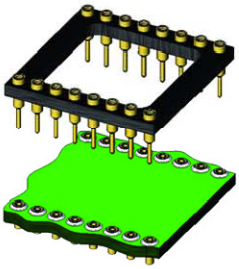
Before Soldering



During Soldering



After Soldering



©Copyright 2020 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

Andon Proprietary Information
RoHS Compliant
*Sockets are not drawn to scale **LUXIMA TECHNOLOGY/ ALEXIMA** 10/05/2020

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America

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

B.C.E. S.r.l. - Via Regina Pacis, 54/c - Sassuolo (MO) - I 41049 - Italy
Tel.: 0536 811616 - Fax: 0536 811500 - Web: www.bce.it - E-mail: bce@bce.it

B.C.E. S.r.l. - Via Regina Pacis, 54/c - I 41049 Sassuolo (MO), Italy
Tel: (+39) 0536 811616 Fax: (+39) 0536 811500 E-mail: bce@bce.it Web: www.bce.it