



HIGH RELIABILITY CONVERTER SOCKETS FOR Gaia Converter



Featuring Andon's Unique SenstacTM Contact

GAIA CONVERTER						
GAIA CONVERTER Model Number	Andon Part Number Replace "XXX" with Terminal Type	Terminal Type		Pin Ø [in]	Figure Number	Page Number
		Thru-Hole	Surface Mount			
CGDI STANDARD INPUT TETHYS SERIES	C10-1952-16-01-XXX-R27-L14	433E	285E	.040	22	5
CGDI WIDE INPUT TETHYS SERIES	C10-1952-16-01-XXX-R27-L14	433E	285E	.040	22	5
CGDM TETHYS SERIES	C10-1952-16-01-XXX-R27-L14	433E	285E	.040	22	5
EMI FILTER FGDS-2A-50V REV G	C10-1114-05-01-XXX-R27-L14	433E	285E	.040	23	5
EMI FILTER FGDS-10A-50V	CSP1300-06-01-XXX-R27-L14	541VP55	542VP55	.030/.060	3	2
EMI FILTER FGDS-20A-50V	CSP1300-06-01-XXX-R27-L14	541VP55	542VP55	.030/.060	3	2
HGMM-350 UNIVERSAL INPUT SERIES	C10-1930-08-02-XXX-R27-L14	433E	285E	.040	2	2
HGMM-350 SERIES	C10-1930-08-02-XXX-R27-L14	433E	285E	.040	2	2
HGMM-150 SERIES	C10-1930-08-02-XXX-R27-L14	433E	285E	.040	2	2
HGMM-35 SERIES	C15-2916-08-01-XXX-R27-L14	433E	285E	.040	16	4
MGDD-20 SERIES	C10-1416-16-01-XXX-R27-L14	01P28	93P28	.028	4	2
MGDD-21 SERIES	C10-1114-10-01-XXX-R27-L14	01P28	93P28	.028	7	2
MGDD-40 SERIES	C10-1130-12-01-XXX-R27-L14	01P28	93P28	.028	25	6
MGDDI-20 ULTRA WIDE INPUT SERIES	C10-1416-16-01-XXX-R27-L14	01P28	93P28	.028	4	2
MGDI-04 BI OUTPUT	C10-624-09-02-XXX-R27-L14	01S	93S	.018	12	3
MGDI-04 SINGLE OUTPUT	C10-624-09-07-XXX-R27-L14	01S	93S	.018	8	3
MGDI-04 STANDARD BI OUTPUT	C10-624-08-03-XXX-R27-L14	01S	93S	.018	10	4
MGDI-04 STANDARD SINGLE OUTPUT	C10-624-08-04-XXX-R27-L14	01S	93S	.018	11	4
MGDI-04 TRIPPLE OUTPUT	C10-624-10-06-XXX-R27-L14	01S	93S	.018	13	3
MGDI-10 STANDARD INPUT SERIES	C10-1418-06-02-XXX-R27-L14	295V	439V	.030	9	3
MGDI-10 WIDE INPUT TRI OUTPUT	C10-1418-07-01-XXX-R27-L14	295V	439V	.030	6	2
MGDI-18 WIDE INPUT SERIES	C10-1418-06-02-XXX-R27-L14	295V	439V	.030	9	3
MGDI-20 STANDARD INPUT SERIES	C10-1826-08-02-XXX-R27-L14	433E	285E	.040	5	2
MGDI-20 WIDE INPUT SERIES	C10-1826-08-02-XXX-R27-L14	433E	285E	.040	5	2
MGDI-25 WIDE INPUT SERIES	C10-1826-08-02-XXX-R27-L14	433E	285E	.040	5	2
MGDI-26 WIDE INPUT SERIES	C20-1810-10-01-XXX-R27-L14	433E	285E	.040	14	4
MGDI-35 WIDE INPUT SERIES	C10-2518-12-01-XXX-R27-L14	433E	285E	.040	15	4
MGDI-60 WIDE INPUT SERIES	C10-2528-18-01-XXX-R27-L14	433E	285E	.040	17	4
MGDI-75 WIDE INPUT SERIES	CSP2000-09-03-XXX-R27-L14	502EP55	503EP55	.040/.060	18	5
MGDI-100 WIDE INPUT SERIES	C10-2528-18-01-XXX-R27-L14	433E	285E	.040	17	4
MGDI-150 WIDE INPUT SERIES	CSP1900-10-04-XXX-R27-L14	507EP72	508EP72	.040/.080	21	5
MGDM-04 BI OUTPUT	C10-624-09-02-XXX-R27-L14	01S	93S	.018	12	3
MGDM-04 SINGLE OUTPUT	C10-624-09-07-XXX-R27-L14	01S	93S	.018	8	3
MGDM-04 TRIPPLE OUTPUT	C10-624-10-06-XXX-R27-L14	01S	93S	.018	13	3
MGDM-10 SERIES TRI OUTPUT	C10-1418-07-01-XXX-R27-L14	295V	439V	.030	6	2
MGDM-18 SERIES	C10-1418-06-02-XXX-R27-L14	295V	439V	.030	9	3
MGDM-20 SERIES	C10-1826-08-02-XXX-R27-L14	433E	285E	.040	5	2
MGDM-25 SERIES	C10-1826-08-02-XXX-R27-L14	433E	285E	.040	5	2
MGDM-26 SERIES	C20-1810-10-01-XXX-R27-L14	433E	285E	.040	14	4
MGDM-35 SERIES	C10-2518-12-01-XXX-R27-L14	433E	285E	.040	15	4
MGDM-75 HIGH INPUT SERIES	CSP2000-09-02-XXX-R27-L14	502EP55	503EP55	.040/.060	19	5
MGDM-75 SERIES	CSP2000-09-03-XXX-R27-L14	502EP55	503EP55	.040/.060	18	5
MGDM-100 SERIES	C10-2528-18-01-XXX-R27-L14	433E	285E	.040	17	4
MGDM-150 HIGH INPUT SERIES	CSP1900-10-04-XXX-R27-L14	507EP72	508EP72	.040/.080	21	5
MGDM-150 LOW INPUT SERIES	CSP1900-10-04-XXX-R27-L14	507EP72	508EP72	.040/.080	21	5
MGDM-155	CSP2000-09-02-XXX-R27-L14	502EP55	503EP55	.040/.060	19	5
MGDM-155 REV B	CSP2000-09-03-XXX-R27-L14	502EP55	503EP55	.040/.060	18	5
MGDM-200 14-1	CSP2500-18-01-XXX-R27-L14	433E	285E	.040	20	5
MGDM-200 14-2 OPTION/2H	CSP156-09-09-01-XXX-R27-L14	559E	-	.040	1	1
MPGS14	C10-620-13-02-XXX-R27-L14	01P28	93P28	.028	24	6

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

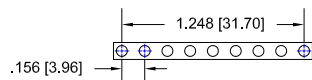


FIG.1

SOLDER CUP: CSP156-09-09-01-559E-R27-L14

GAIA CONVERTER *Continued*

Socket Terminal Details

Cross Section View Shown Units: in[mm]

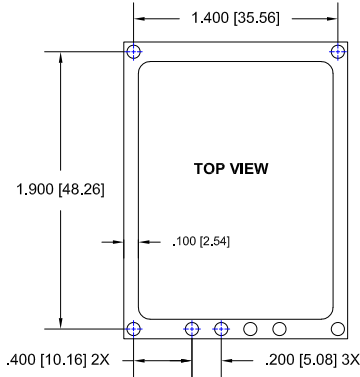


FIG.2
Thru-Hole: C10-1930-08-02-433E-R27-L14
Surface Mount: C10-1930-08-02-285E-R27-L14

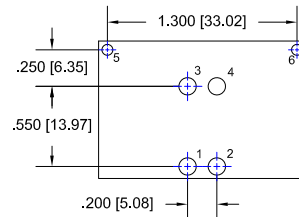


FIG.3
 Pins 1-4 are $\varnothing.062$ [$\varnothing1.57$]
 Pins 5-6 are $\varnothing.030$ [$\varnothing0.76$]
Thru-Hole: CSP1300-06-01-541VP55-R27-L14
Surface Mount: CSP1300-06-01-542VP55-R27-L14

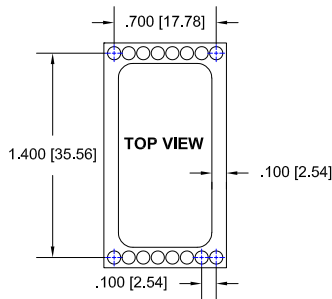


FIG.4
Thru-Hole: C10-1416-16-01-01P28-R27-L14
Surface Mount: C10-1416-16-01-93P28-R27-L14

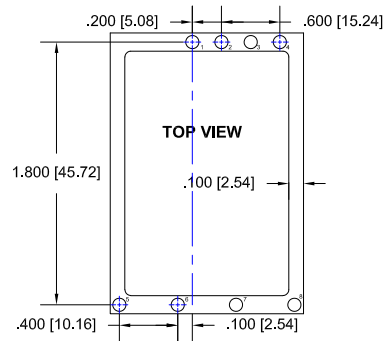


FIG.5
Thru-Hole: C10-1826-08-02-433E-R27-L14
Surface Mount: C10-1826-08-02-285E-R27-L14

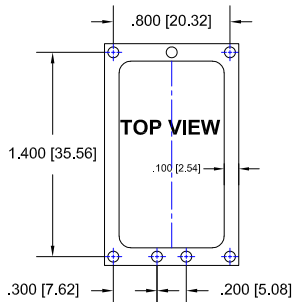


FIG.6
Thru-Hole: C10-1418-07-01-295V-R27-L14
Surface Mount: C10-1418-07-01-439V-R27-L14

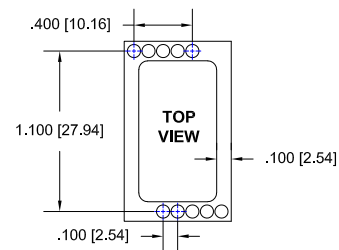


FIG.7
Thru-Hole: C10-1114-10-01-01P28-R27-L14
Surface Mount: C10-1114-10-01-93P28-R27-L14

GAIA CONVERTER *Continued*
Socket Terminal Details
Cross Section View Shown Units: in[mm]

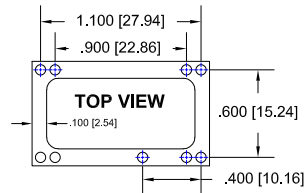


FIG.8
Thru-Hole: C10-624-09-07-01S-R27-L14
Surface Mount: C10-624-09-07-93S-R27-L14

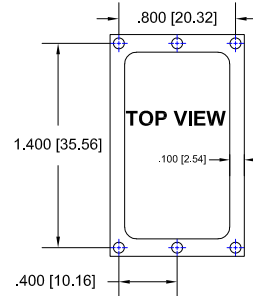


FIG.9
Thru-Hole: C10-1418-06-02-295V-R27-L14
Surface Mount: C10-1418-06-02-439V-R27-L14

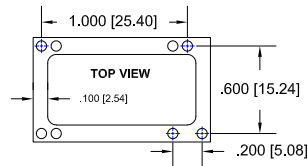


FIG.10
Thru-Hole: C10-624-08-03-01S-R27-L14
Surface Mount: C10-624-08-03-93S-R27-L14

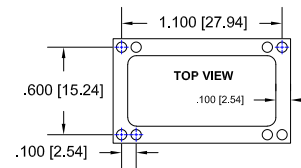


FIG.11
Thru-Hole: C10-624-08-04-01S-R27-L14
Surface Mount: C10-624-08-04-93S-R27-L14

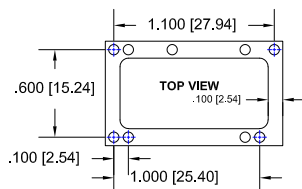


FIG.12
Thru-Hole: C10-624-09-02-01S-R27-L14
Surface Mount: C10-624-09-02-93S-R27-L14

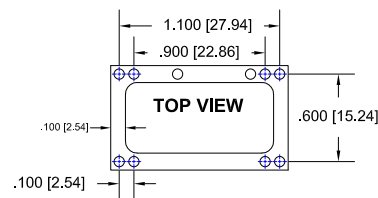


FIG.13
Thru-Hole: C10-624-10-06-01S-R27-L14
Surface Mount: C10-624-10-06-93S-R27-L14

GAIA CONVERTER *Continued*
Socket Terminal Details
Cross Section View Shown Units: in[mm]

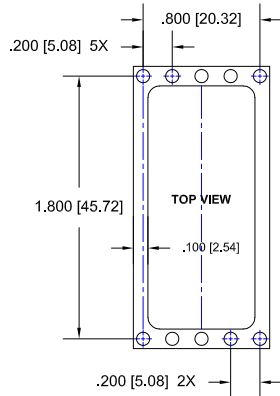


FIG.14
Thru-Hole: C20-1810-10-01-433E-R27-L14
Surface Mount: C20-1810-10-01-285E-R27-L14

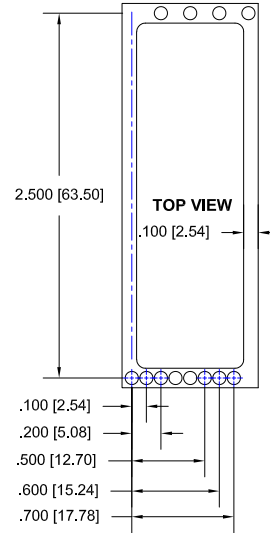


FIG.15
Thru-Hole: C10-2518-12-01-433E-R27-L14
Surface Mount: C10-2518-12-01-285E-R27-L14

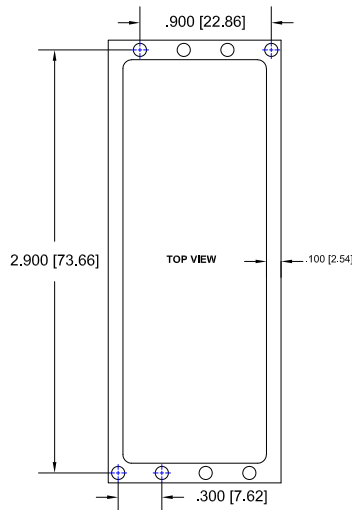


FIG.16
Thru-Hole: C15-2916-08-01-433E-R27-L14
Surface Mount: C15-2916-08-01-285E-R27-L14

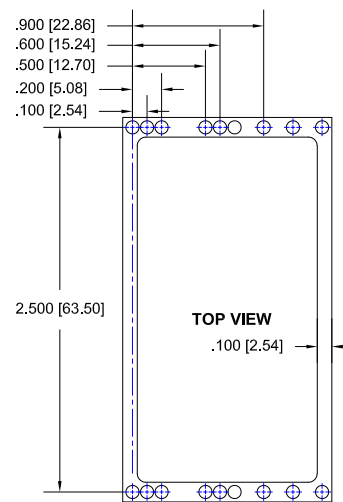


FIG.17
Thru-Hole: C10-2528-18-01-433E-R27-L14
Surface Mount: C10-2528-18-01-285E-R27-L14

GAIA CONVERTER *Continued*

Socket Terminal Details

Cross Section View Shown Units: in[mm]

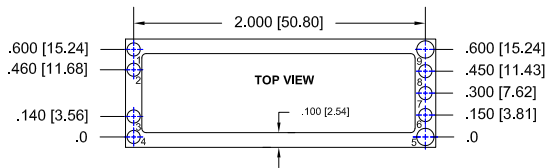


FIG.18 Pins 1-4, 6-8 are $\varnothing.040$ [$\varnothing1.02$]
Pins 5 and 9 are $\varnothing.062$ [$\varnothing1.57$]
Thru-Hole: CSP2000-09-03-502EP55-R27-L14
Surface Mount: CSP2000-09-03-503EP55-R27-L14

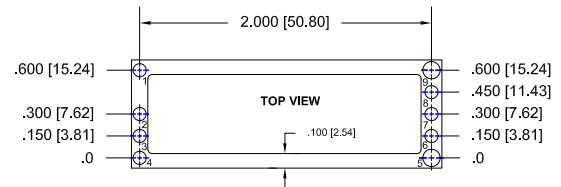


FIG.19 Pins 1-4, 6-8 are $\varnothing.040$ [$\varnothing1.02$]
Pins 5 and 9 are $\varnothing.062$ [$\varnothing1.57$]
Thru-Hole: CSP2000-09-02-502EP55-R27-L14
Surface Mount: CSP2000-09-02-503EP55-R27-L14

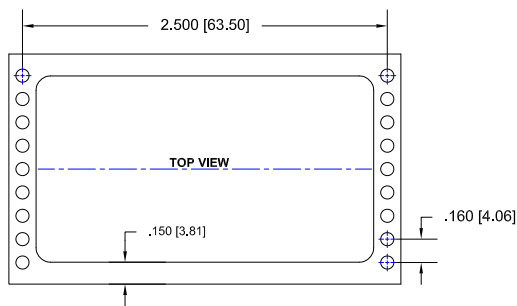


FIG.20
Thru-Hole: CSP2500-18-01-433E-R27-L14
Surface Mount: CSP2500-18-01-285E-R27-L14

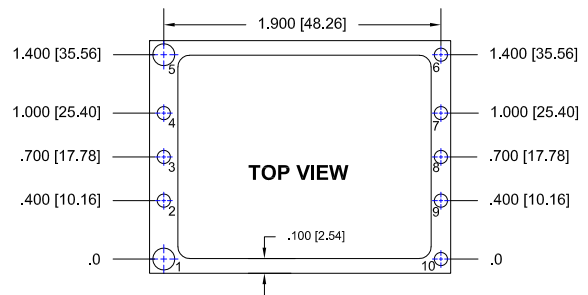


FIG.21 Pins 2-4, 6-10 are $\varnothing.040$ [$\varnothing1.02$]
Pins 1 and 5 are $\varnothing.080$ [$\varnothing2.03$]
Thru-Hole: CSP1900-10-04-507EP72-R27-L14
Surface Mount: CSP1900-10-04-508EP72-R27-L14

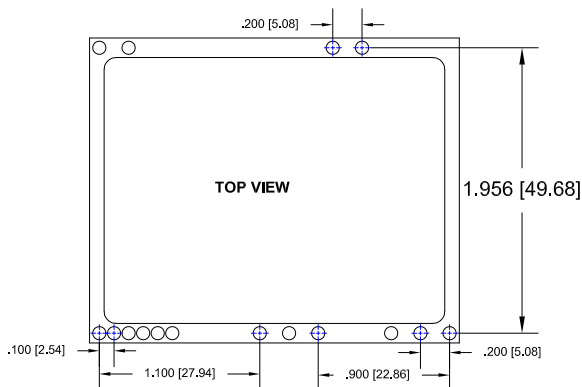


FIG.22
Thru-Hole: C10-1952-16-01-433E-R27-L14
Surface Mount: C10-1952-16-01-285E-R27-L14

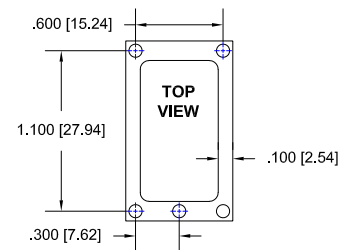


FIG.23
Thru-Hole: C10-1114-05-01-433E-R27-L14
Surface Mount: C10-1114-05-01-285E-R27-L14

GAIA CONVERTER *Continued*

Socket Terminal Details

Cross Section View Shown Units: in[mm]

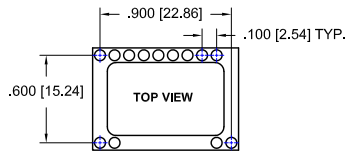


FIG.24

Thru-Hole: C10-620-13-02-01P28-R27-L14
 Surface Mount: C10-620-13-02-93P28-R27-L14

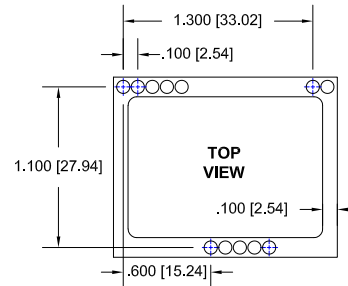


FIG.25

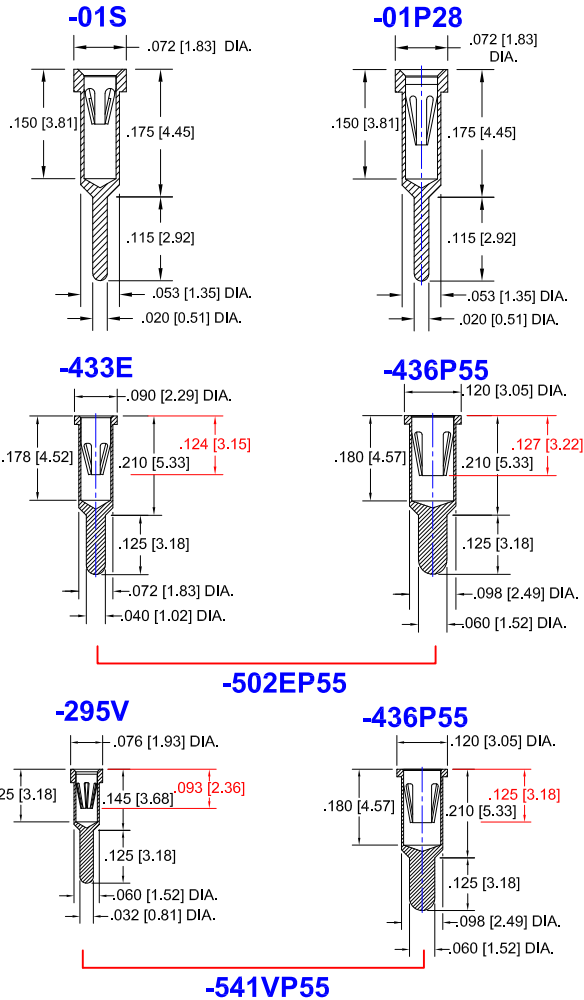
Thru-Hole: C10-1130-12-01-01P28-R27-L14
 Surface Mount: C10-1130-12-01-93P28-R27-L14

GAIA CONVERTER *Continued*

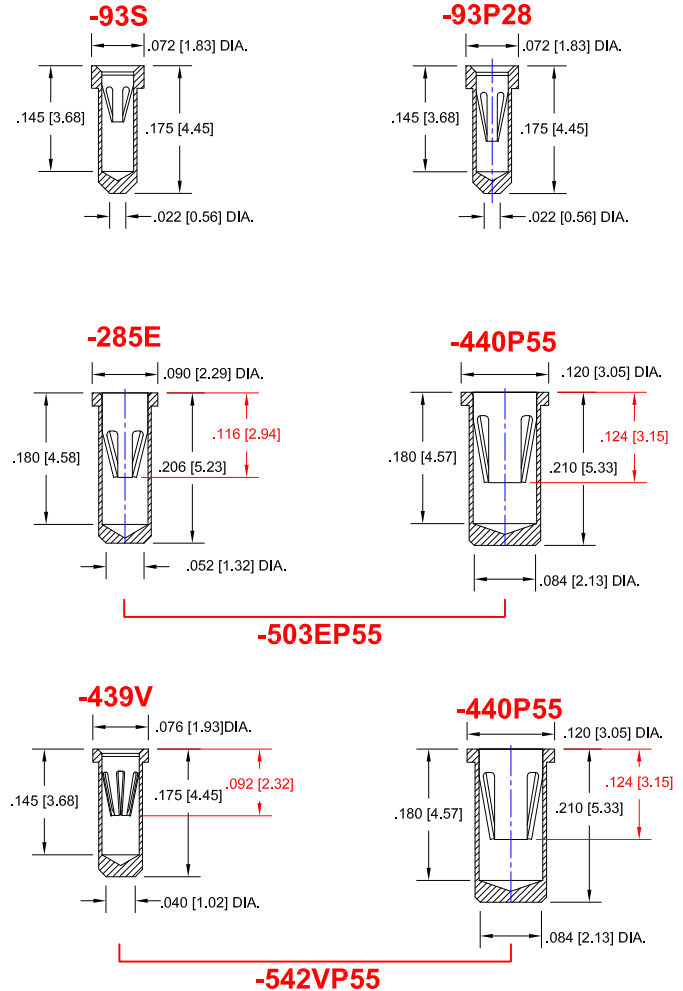
Socket Terminal Options

Cross Section View Shown
Units: in [mm]

THRU HOLE OPTION



SURFACE MOUNT OPTION



Technical Information

Material:

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

Plating: RoHS COMPLIANT

R15 TERMINAL: GOLD / CONTACT: GOLD

R17 TERMINAL: TIN / CONTACT: GOLD

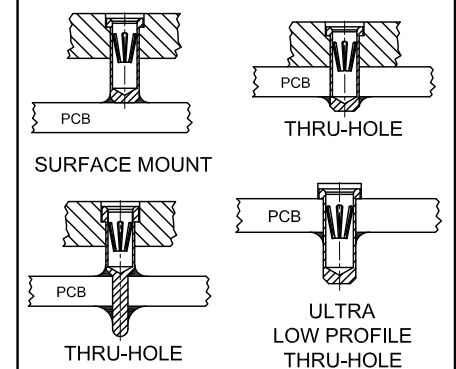
OTHER PLATINGS AVAILABLE

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
-295V	Ø.030 [Ø0.76]	13.2 oz Avg.	3.5 oz Min	-439V	Ø.030 [Ø0.76]	13.2 oz Avg.	3.5 oz Min
-436P55	Ø.060 [Ø1.52]	15.5 oz Avg.	2.1 oz Min	-440P55	Ø.060 [Ø1.52]	15.5 oz Avg.	2.1 oz Min
-433E	Ø.040 [Ø1.02]	36.0 oz Avg.	3.9 oz Min	-285E	Ø.040 [Ø1.02]	36.0 oz Avg.	3.9 oz Min
-559E	Ø.040 [Ø1.02]	36.0 oz Avg.	3.9 oz Min	N/A	-	-	-
-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
-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

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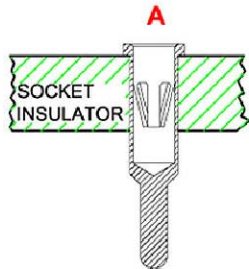
MOUNTING OPTIONS



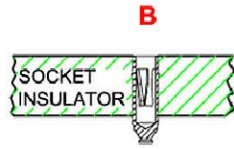
"ANDON PROPRIETARY INFORMATION"
RoHS Compliant

*Sockets are not drawn to scale GAIA CONVERTER 10/16/2018

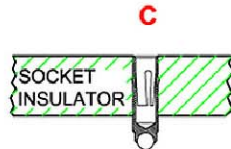
Mounting Options



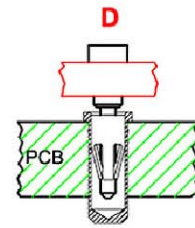
THRU-HOLE



SMD-FLAT FOOT



ROLLERBALL



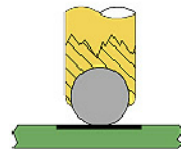
PCB FOR THRU-HOLE
INSULATOR FOR SMD

**CARRIER
WITH OR WITHOUT
SOLDER
WASHER**



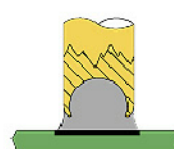
**PIN SOCKET
BULK
WITH OR WITHOUT
SOLDER
WASHER**

ROLLERBALL® SOCKET



BEFORE SOLDERING

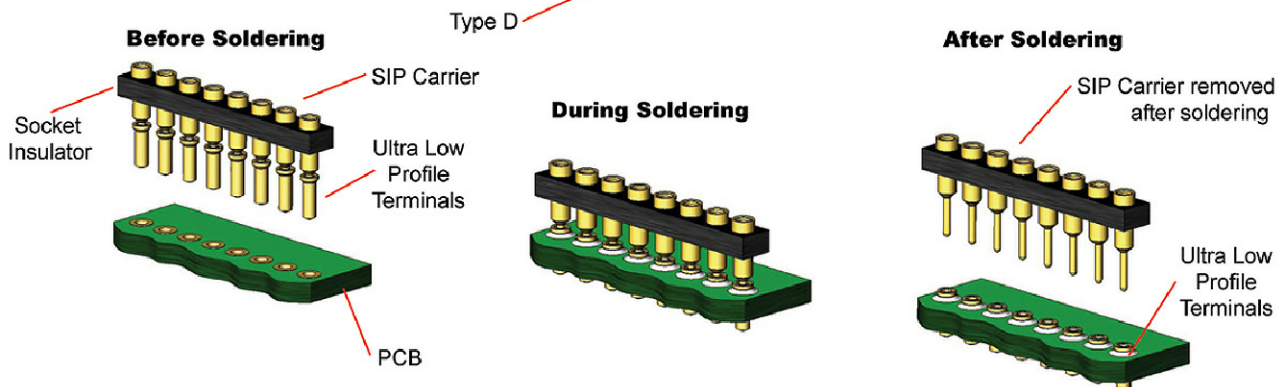
ROLLERBALL® SOCKET



AFTER SOLDERING

U.S. PATENT # 6,352,437
CANADIAN PATENT # 2,388,520

ULTRA LOW PROFILE SIP/DIP/PGA CARRIER ASSEMBLY



Available with or without solder washer