



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



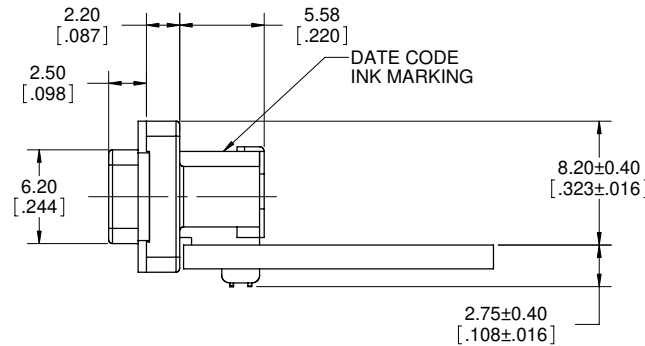
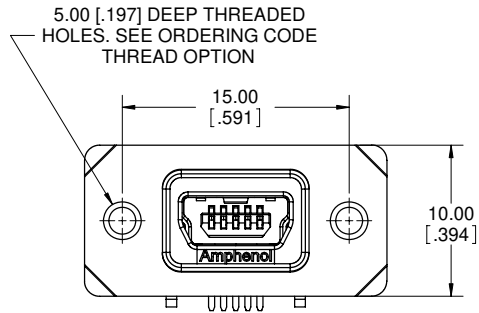
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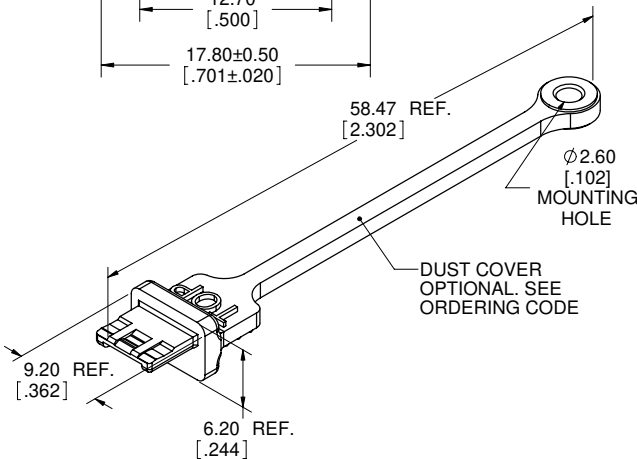
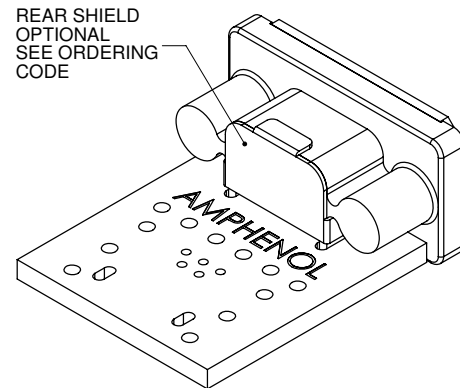
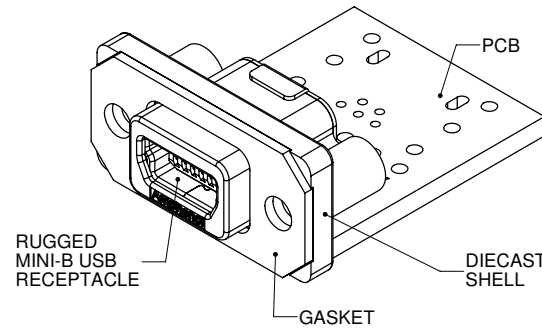
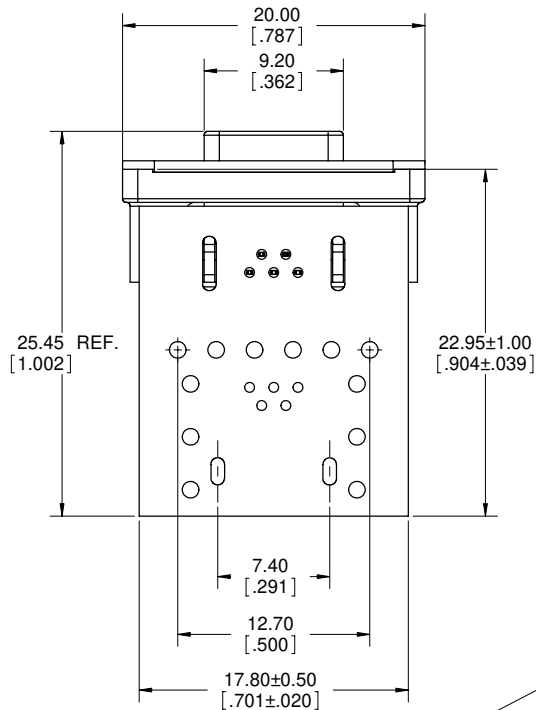


ORDERING CODE: M U S B - B A 5 1 - X X

SERIES, RUGGED USB
MINI-B RECEPTACLE, RIGHT
ANGLE, ON PCB WITH
HOLES FOR WIRING

REAR SHIELD & THREAD OPTION
0=NO REAR SHIELD, #2-56 UNC THREAD
3=WITH REAR SHIELD, #2-56 UNC THREAD
M=WITH REAR SHIELD, M2.5 x 0.45 THREAD
N=NO REAR SHIELD, M2.5 x 0.45 THREAD

DUST COVER OPTION
0=NO DUST COVER SUPPLIED
1=WITH GREY DUST COVER SUPPLIED
5=WITH BLACK DUST COVER SUPPLIED

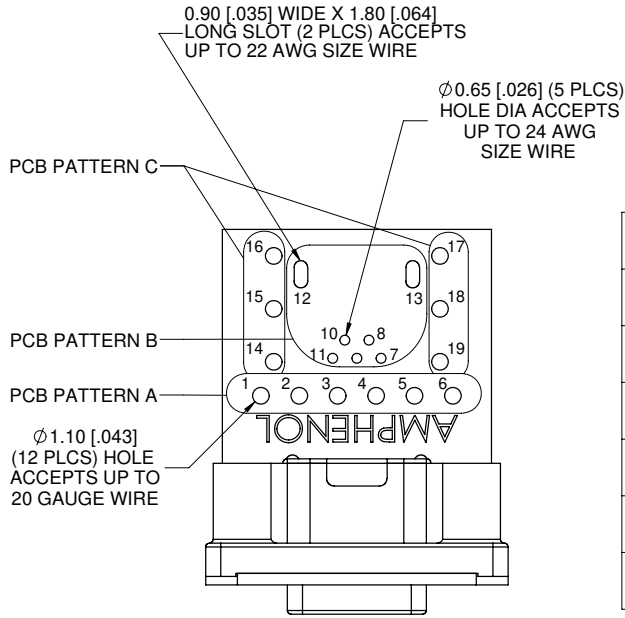


NOTES:

- MATERIAL**
ALL MATERIALS ARE RoHS COMPLIANT PER EU DIRECTIVE 2002/95/EC AND AMENDMENTS.
 - OUTER SHELL - DIECAST ZINC, NICKEL PLATED
 - CONTACTS - PHOSPHOR BRONZE WITH 30 MICROINCHES (0.76 MICRONS) GOLD OVER 50 MICROINCHES (1.27 MICRONS) MINIMUM NICKEL ON THE MATING AREA AND TIN OVER NICKEL ON THE CONTACT TAILS
 - USB HOUSING: ENGINEERING THERMOPLASTIC, UL FLAMMABILITY RATING UL94V-0, BLACK
 - USB SHIELD: COPPER ALLOY, NICKEL PLATED
 - REAR SHIELD: COPPER ALLOY, NICKEL PLATED
 - GASKET - PORON, WITH ADHESIVE BACKING
 - PCB - FR-4 FIBERGLASS, LEAD FREE
 - DUST COVER: SILICONE RUBBER WITH NICKEL PLATED COPPER ALLOY BUSHING
- ENVIRONMENTAL PERFORMANCE** PER IEC 60529 CODE IP67 FOR SEAL BETWEEN MATING AREA AND PCB SIDE OF CONNECTOR. GASKET PROVIDES SEAL TO INSIDE FACE OF ENCLOSURE PANEL. AVAILABLE DUST COVER PROVIDES ADDED PROTECTION.
- CURRENT RATING:** 1 AMPERES.
- CONTACT RESISTANCE:** 100 MILLIOHMS (SUBJECT TO VERIFICATION).
- OPERATING TEMPERATURE:** -40 °C TO +105 °C.
- DUST COVERS MAY BE ORDERED SEPARATELY. SPECIFY**
 - MUSB-2E151-005BP FOR GREY DUST COVER
 - MUSB-2E151-015BP FOR BLACK DUST COVERSEE PAGE 2 FOR APPLICATION VIEW

UNLESS SPECIFIED OTHERWISE		DRAWN	H.KIM	MAR13/09	Amphenol Canada Corp.	
PRIMARY UNITS	MILLIMETERS	CHECKED				
SECONDARY	INCHES	M.E. APP'D				
REFERENCE IN PARENTHESES		Q.A. APP'D				
GENERAL TOLERANCES		DWG APPR.	K.LAMBIE	MAR18/09	MUSB SERIES RUGGED MINI-B USB RECEPTACLE, RIGHT ANGLE, ON PCB WITH HOLES FOR WIRING, RoHS COMPLIANT	
1	DECIMAL PLACE	ENG. REL. NO.				
2	DECIMAL PLACES ±0.15	REF.	EAR 13491		P-MUSB-BA51-XX	
3	DECIMAL PLACES	THIRD ANGLE PROJECTION	DO NOT SCALE DRAWING			
ANGULAR DEGREES					CODE ID NO. 03554	DWG SIZE:
					SCALE: 4:1	SHEET 1 OF 2

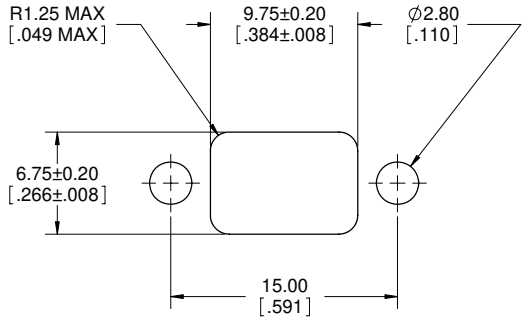
REVISIONS			
REV.	DESCRIPTION, E.C.N., E.A.R. NO.	DATE	APPROVED
B	PRODUCT DRAWING (EAR 13491)	JUN01/10	K.L.



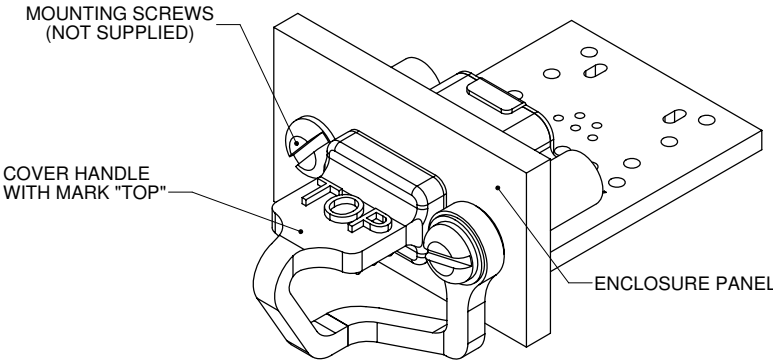
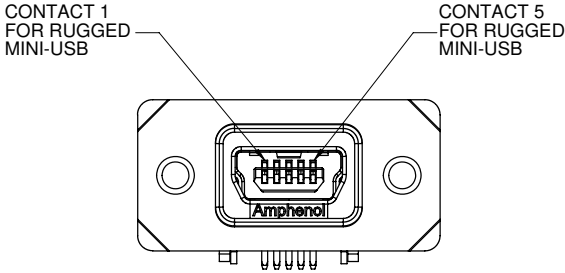
MINI USB TO PCB CONNECTION CHART

MINI-B USB RECEPTACLE	PCB HOLE PATTERN A	PCB HOLE PATTERN B	PCB HOLE PATTERN C
SHELL/GROUND	HOLE 6	HOLE 12 OR 13	HOLE 19
CONTACT 1	HOLE 1	HOLE 7	HOLE 14
CONTACT 2	HOLE 2	HOLE 8	HOLE 15
CONTACT 3	HOLE 3	HOLE 9	HOLE 16
CONTACT 4	HOLE 4	HOLE 10	HOLE 17
CONTACT 5	HOLE 5	HOLE 11	HOLE 18

WIRES MAY BE CONNECTED TO HOLE PATTERN A, B OR C OR A COMBINATION OF THE THREE PATTERNS.





RECOMMENDED PANEL CUTOUT



DUST COVER APPLICATION



UNLESS SPECIFIED OTHERWISE		DRAWN	H.KIM	MAR13/09	Amphenol Canada Corp.			
PRIMARY UNITS	MILLIMETERS	CHECKED			MUSB SERIES RUGGED MINI-B USB RECEPTACLE, RIGHT ANGLE, ON PCB WITH HOLES FOR WIRING, RoHS COMPLIANT			
SECONDARY	INCHES	M.E. APP'D						
REFERENCE IN PARENTHESES		Q.A. APP'D						
GENERAL TOLERANCES		DWG APPR.	K.LAMBIE	MAR18/09	DWG. NO. P-MUSB-BA51-XX <small>REV. B</small>			
1	DECIMAL PLACE	ENG. REL. NO.						
2	DECIMAL PLACES ±0.15	REF. EAR 13491						
3	DECIMAL PLACES	THIRD ANGLE PROJECTION   DO NOT SCALE DRAWING						
ANGULAR DEGREES					CODE ID NO. 03554	DWG SIZE:	SCALE: 4:1	SHEET 2 OF 2