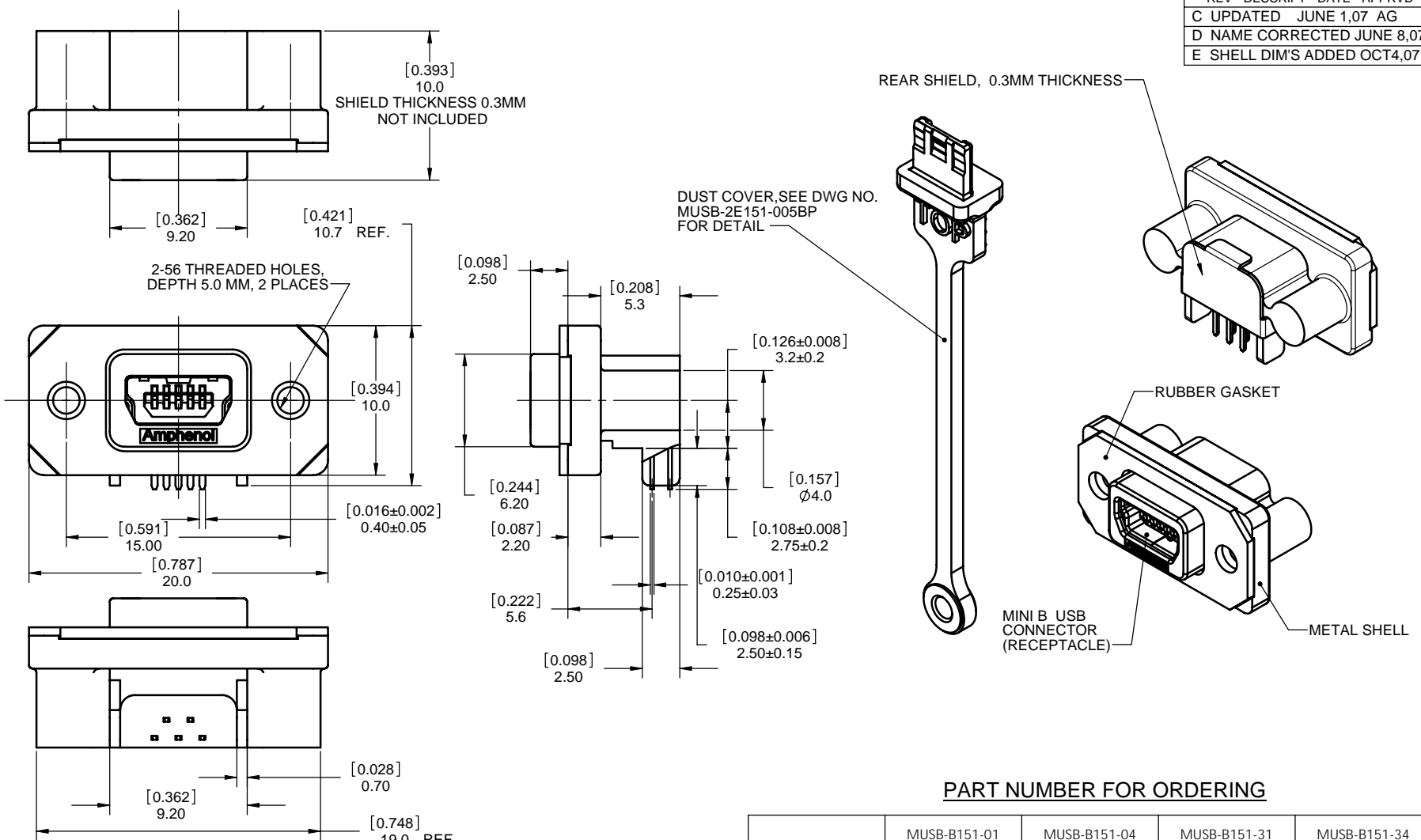


REV - DESCRIPT - DATE - APPRVD
 C UPDATED JUNE 1,07 AG
 D NAME CORRECTED JUNE 8,07 AG
 E SHELL DIM'S ADDED OCT4,07 A.G.



PART NUMBER FOR ORDERING

	MUSB-B151-01	MUSB-B151-04	MUSB-B151-31	MUSB-B151-34
REAR SHIELD	NO	NO	YES	YES
DUST COVER	YES	NO	YES	NO

NOTES:

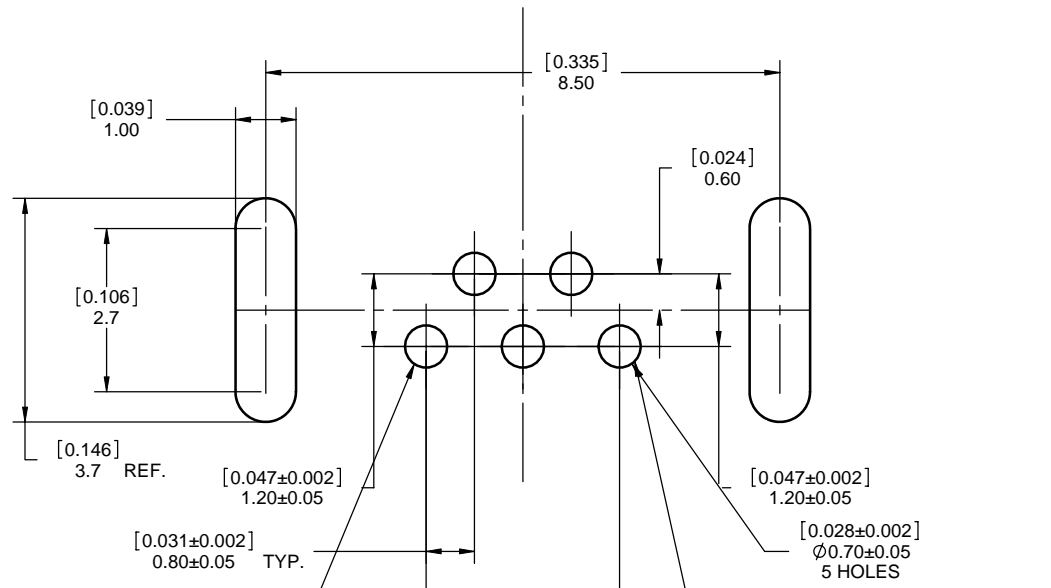
- MATERIAL:**
 - SHELL: ZINC ALLOY DIE CAST, NICKEL PLATED.
 - CONTACTS: PHOSPHOR BRONZE, GOLD OVER NICKEL PLATED.
 - GASKET: SILICONE RUBBER.
 - REAR SHIELD: BRASS ALLOY, NICKEL PLATED.
 - DUST COVER: SILICONE RUBBER WITH NICKEL PLATED BRASS BUSHING.
- FEATURE:** SEALED CONNECTOR IN THE MATED AND UNMATED CONDITIONS.
- OPERATING TEMPERATURE:** -40°C TO +85°C.
- ENVIRONMENT PERFORMANCE:** IP67.
- PART IS ROHS COMPLIANT PER EU DIRECTIVE 2002/95/EC AND AMENDMENTS.**
- PART IS UL94V-0 COMPLIANT.**



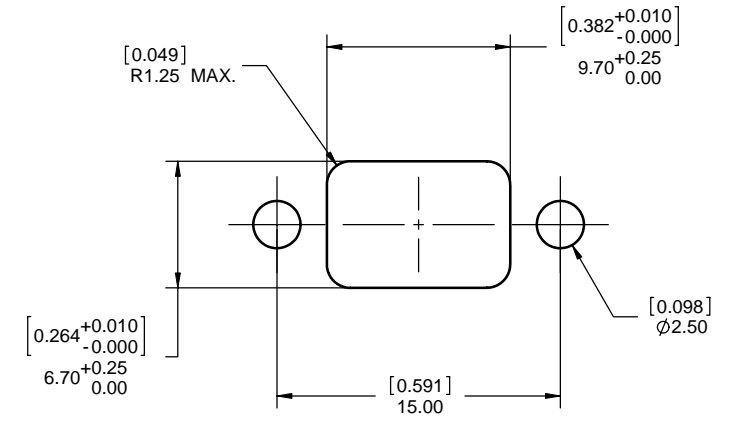
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE:		APPROVALS	DATE	Amphenol Canada Corp.	
DECIMALS	ANGLES	DRAWN	DATE		
.XX ±.10	± 1°	S.SEMENOV	MAR15/07	TITLE RUGGED MINI-B USB, RECEPTACLE, RIGHT ANGLE	
.X ±.25		DESIGNED	MAR15/07		
MATERIAL AND FINISH		CHECKED		SIZE	DWG. NO.
		QA APP'D		C	P-MUSB-B151-XX
REF.		IE APP'D		SCALE	PROJECT
CODE IDENT. NO.		DWG APP'D	MAR15/07	1:0.2	MUSB
		A.GREEN			SHEET
					1 OF 2

DO NOT SCALE DRAWING
 THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED FOR MANUFACTURING PURPOSES WITHOUT PERMISSION FROM AMPHENOL CANADA CORP.

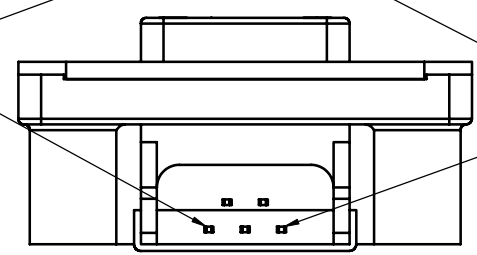
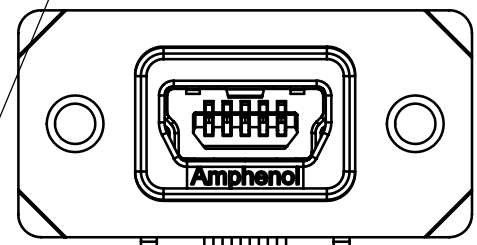
REV - DESCRIPT - DATE - APPRVD
C UPDATED JUNE 1,07 AG
D NAME CORRECTED JUNE 8,07 AG
E SHELL DIM'S ADDED OCT4,07 A.G.



**RECOMMENDED P.C.B. LAYOUT
VIEW FROM SOLDERING SIDE**



RECOMMENDED PANEL CUTOUT



PIN #1

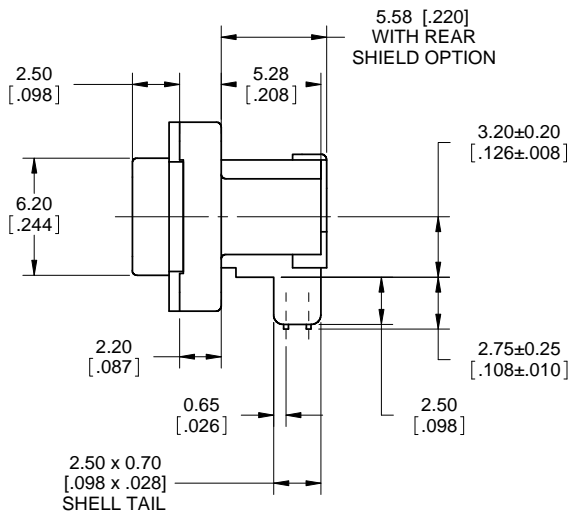
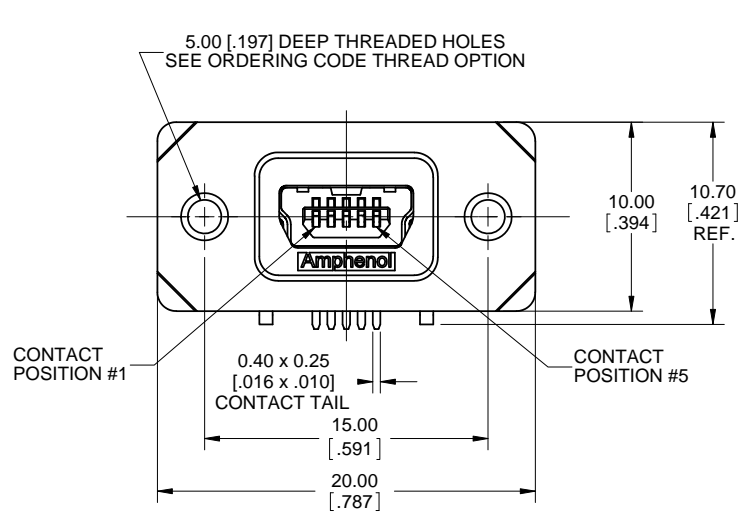
PIN #5



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE:		APPROVALS	DATE	Amphenol Canada Corp.	
DECIMALS	ANGLES	DRAWN	MAR15/07		
.XX ±.10	± 1°	S.SEMENOV		TITLE RUGGED MINI-B USB, RECEPTACLE, RIGHT ANGLE	
.X ±.25		DESIGNED	MAR15/07		
MATERIAL AND FINISH		CHECKED		SIZE	DWG. NO.
REF.		QA APP'D		C	P-MUSB-B151-XX
CODE IDENT. NO.		IE APP'D		SCALE	PROJECT
		DWG APP'D	MAR15/07	1:0.2	MUSB
		A.GREEN			SHEET
					2 OF 2

DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED FOR MANUFACTURING PURPOSES WITHOUT PERMISSION FROM AMPHENOL CANADA CORP.

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
H	REV PER EAR 13750	JUL20/11	K.L.



ORDERING CODE: MUSB-B151-XX

SERIES, RUGGED USB

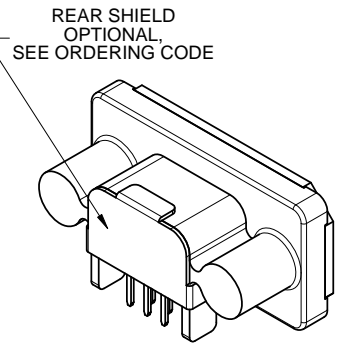
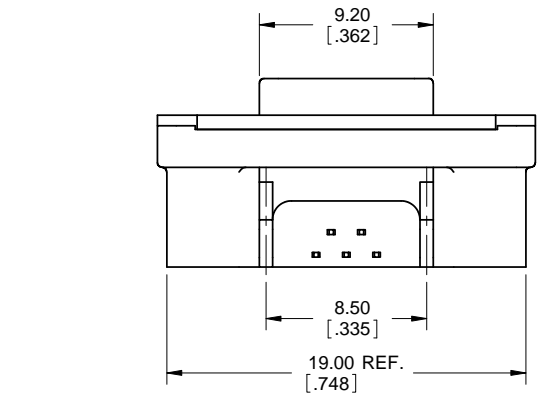
USB 'MINI-B' RECEPTACLE, SINGLE PORT, RIGHT ANGLE PCB TAILS

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
 4=NO DUST COVER SUPPLIED
 5=WITH BLACK DUST COVER SUPPLIED

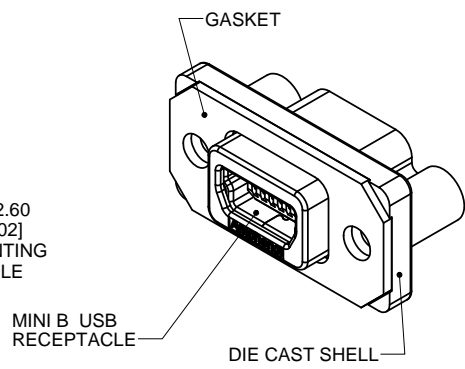
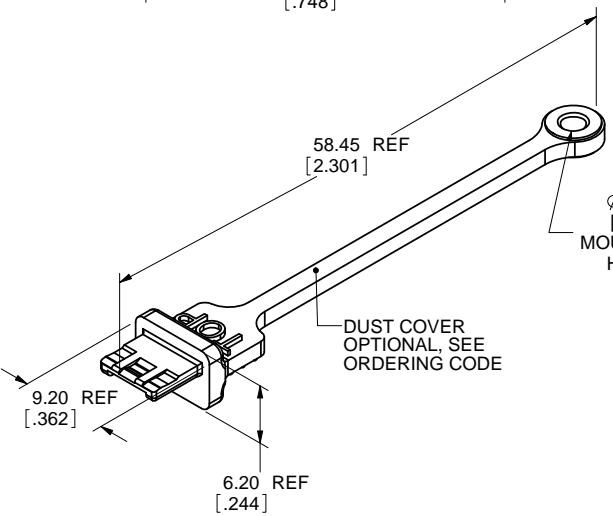
NOTE: THERE IS NO DIFFERENCE BETWEEN DUST COVER OPTIONS '0' AND '4'

SPECIAL CONNECTORS:
 MANY UNIQUE FEATURES ARE READILY AVAILABLE TO SUIT CUSTOMER REQUIREMENTS. CONSULT WITH AMPHENOL CANADA FOR DETAILS.



NOTES:

- MATERIAL:**
 ALL MATERIALS ARE RoHS COMPLIANT PER EU DIRECTIVE 2002/95/EC AND AMENDMENTS
 - OUTER SHELL: DIE CAST ZINC ALLOY, NICKEL PLATED
 - CONTACTS: PHOSPHOR BRONZE, PLATED WITH 0.76 MICRONS [30u"] GOLD OVER 1.27 MICRONS [50u"] MINIMUM NICKEL ON THE MATING AREA WITH TIN OVER NICKEL ON THE TAILS.
 - USB HOUSING: ENGINEERING THERMOPLASTIC, FLAMMABILITY RATING UL94V-0, BLACK.
 - USB SHELL & REAR SHIELD: COPPER ALLOY, NICKEL PLATED
 - GASKET: PORON WITH ADHESIVE BACKING.
 - 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. SEE SHEET 2 FOR APPLICATION VIEW.**
- CURRENT RATING: 1 AMPERE.**
- CONTACT RESISTANCE: 50 MILLIOHMS MAXIMUM.**
- OPERATING TEMPERATURE: -40°C TO +105°C.**
- DUST COVERS MAY BE ORDERED SEPARATELY. SPECIFY**
 - PART NUMBER MUSB-2E151-005BP FOR GREY DUST COVER
 - PART NUMBER MUSB-2E151-015BP FOR BLACK DUST COVER
- RECOMMENDED TORQUE FOR PANEL MOUNT SCREWS: 0.23 TO 0.34 N.m (2.00 TO 3.00 IN-LBS) FOR SCREWS WITH 2.50mm (.098") THREAD ENGAGEMENT.**
- RECOMMENDED ENCLOSURE PANEL: 1.20 TO 2.50mm (0.47 TO .098") THICK.**



UNLESS SPECIFIED OTHERWISE	DRAWN	S.SEMENOV	MAR15/07
PRIMARY UNITS MILLIMETERS	CHECKED		
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.	A.GREEN	MAR15/07
1 DECIMAL PLACE	ENG. REL. NO.		
2 DECIMAL PLACES ±0.15	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

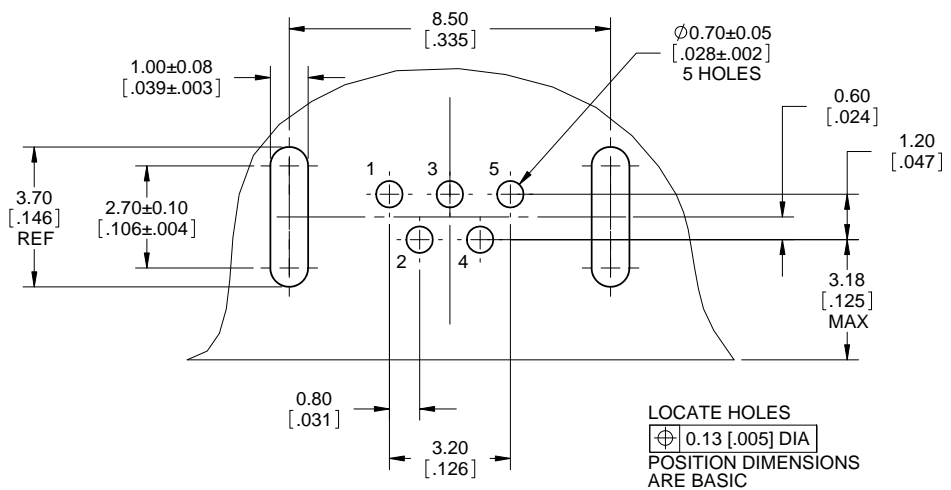
Amphenol Canada Corp.

MUSB SERIES RUGGED MINI-B USB RECEPTACLE, RIGHT ANGLE PCB TAIL, RoHS COMPLIANT

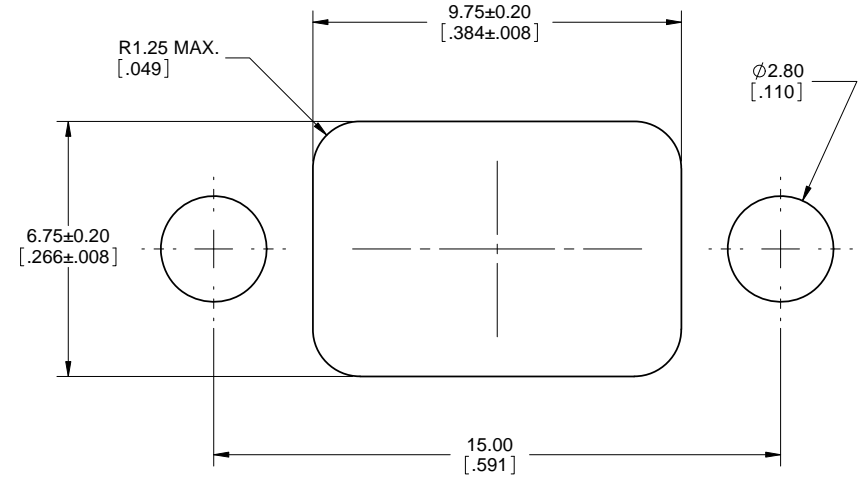
DWG. NO. **P-MUSB-B151-XX** REV **H**

CODE ID NO. 03554 DWG SIZE: C SCALE: 5:1 SHEET 1 OF 2

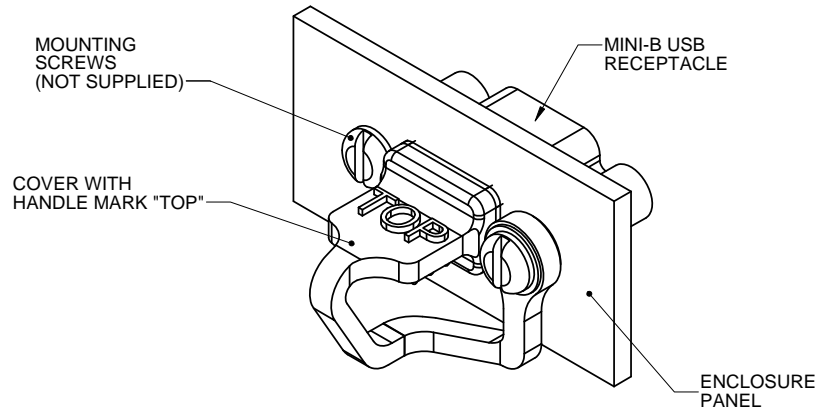
REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
G	REV PER EAR 13750	MAR21/11	K.L.



RECOMMENDED P.C.B. LAYOUT
COMPONENT SIDE OF BOARD



RECOMMENDED PANEL CUTOUT



DUST COVER APPLICATION



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED FOR MANUFACTURING PURPOSES WITHOUT WRITTEN PERMISSION FROM AMPHENOL CANADA CORP.

UNLESS SPECIFIED OTHERWISE	DRAWN	S.SEMENOV	MAR15/07	Amphenol Canada Corp. www.amphenolcanada.com
PRIMARY UNITS MILLIMETERS	CHECKED			
SECONDARY UNITS INCHES	M.E. APP'D			
REFERENCE IN PARENTHESES	Q.A. APP'D			MUSB SERIES RUGGED MINI-B USB RECEPTACLE, RIGHT ANGLE PCB TAIL, RoHS COMPLIANT
GENERAL TOLERANCES	DWG APPR.	A.GREEN	MAR15/07	
1 DECIMAL PLACE	ENG. REL. NO.			
2 DECIMAL PLACES ±0.15	REF.			DWG. NO.
3 DECIMAL PLACES	THIRD ANGLE PROJECTION			P-MUSB-B151-XX
ANGULAR DEGREES	DO NOT SCALE DRAWING			REV G

CODE ID NO. 03554 DWG SIZE: C SCALE: 5:1 SHEET 2 OF 2