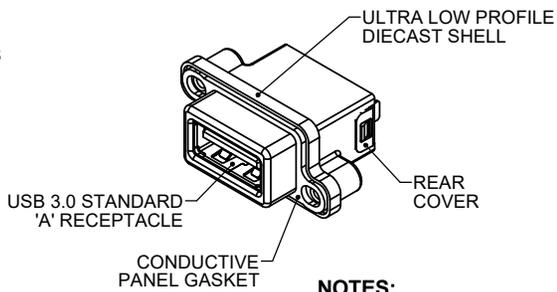
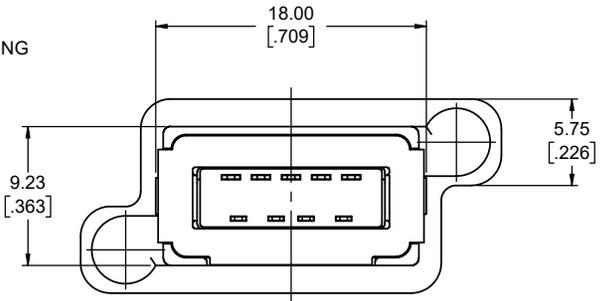
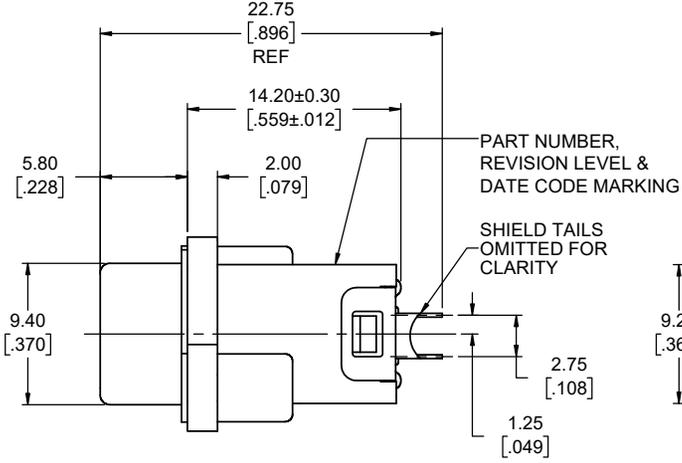
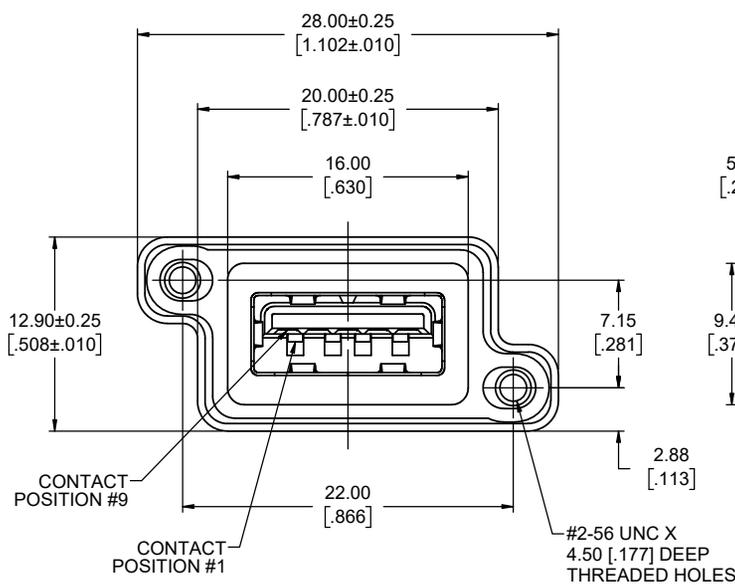
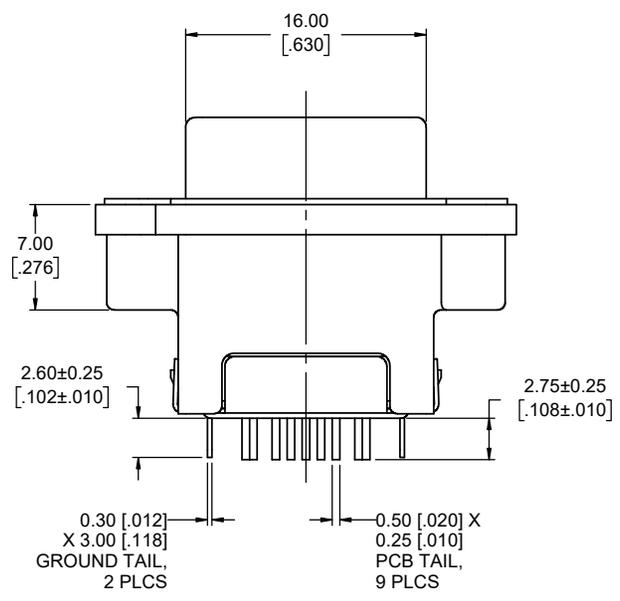


REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
D	PRODUCT DRAWING (EAR 14805)	AUG12/20	K.L.
E	PRODUCT DRAWING (EAR 14948)	MAR15/21	K.L.



ORDERING CODE: M USB R - 3 5 9 3 - 3 0 2

SERIES, RUGGED USB
 USB 3.0 STANDARD 'A' RECEPTACLE, VERTICAL PCB TAIL
 UNC THREAD
 NO DUST COVER SUPPLIED
 UNIQUE SPECIAL CODE WITH ULTRA LOW PROFILE SHELL, #2-56 UNC THREAD, SPECIAL DIMENSIONS, PART MARKING, EXTRA NICKEL PLATING ON CONTACTS & SPECIAL PANEL GASKET MATERIALS



NOTES:

- MATERIAL:**
 - ALL MATERIALS ARE RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS
 - OUTER SHELL - DIECAST ZINC ALLOY, MATTE TIN OVER NICKEL PLATED
 - CONTACTS - PHOSPHOR BRONZE & COPPER ALLOY, PLATED WITH 5.08 µm (200 µ") MIN. ELECTRODEPOSITED NICKEL OVERALL, FOLLOWED BY 0.76 µm (30 µ") MIN. GOLD ON THE MATING AREA AND MATTE TIN ON THE TAILS.
 - HOUSINGS - ENGINEERING THERMOPLASTIC, HIGH TEMPERATURE RESISTANT, FLAMMABILITY RATING UL94V-0, MATING AREA - BLUE, OTHERS - BLACK
 - USB SHIELD & REAR COVER - STAINLESS STEEL, PASSIVATED
 - PANEL GASKET - GREY SILICONE RUBBER WITH ADHESIVE BACKING (ROGERS BISCO HT-6210, DUROMETER 64 SHORE OO, 0.79mm THICK, ADHESIVE DST FS-2256H) TOTAL THICKNESS 0.89+/-0.10mm, SILICONE ADHESIVE ON GASKET SIDE.
- 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.
- CURRENT RATING: 1.8A MAX. FOR POSITIONS 1 & 4, 0.25A MAX. FOR REMAINING POSITIONS
- CONTACT RESISTANCE: 30 MILLIOHMS MAX. FOR POSITIONS 1 & 4, 50 MILLIOHMS MAX. FOR REMAINING POSITIONS.
- OPERATING TEMPERATURE: -40°C TO +105°C.



UNLESS SPECIFIED OTHERWISE	DRAWN	M.PAHULJE	MAR26/20
PRIMARY UNITS MILLIMETERS	CHECKED	K.LAMBIE	MAR26/20
SECONDARY UNITS INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE	ENG. REL. NO.	EAR 14805	
2 DECIMAL PLACES ±0.15	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

Amphenol Canada Corp.
 Commercial Products

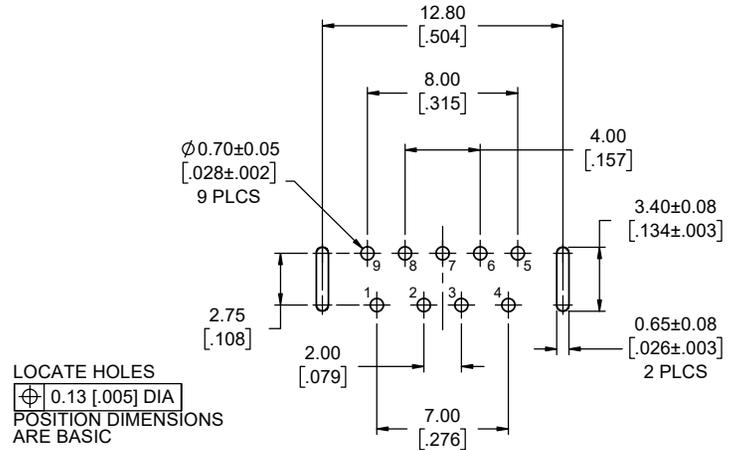
MUSBR RUGGED USB CONNECTOR, 3.0 STANDARD 'A' RECEPTACLE, VERTICAL PCB TAIL, ULTRA LOW PROFILE SHELL, RoHS COMPLIANT

DWG. NO. **P-MUSBR-3593-302** REV **E**

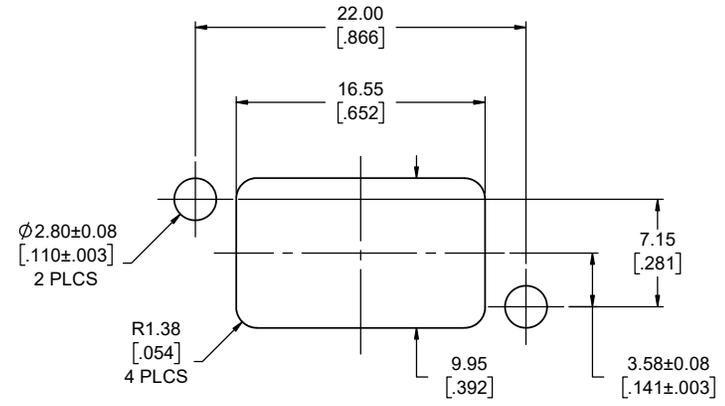
CODE ID NO. 03554 DWG SIZE: X SCALE: 4:1 SHEET 1 OF 2

PIN ASSIGNMENT CHART		
POSITION #	SIGNAL NAME	DESCRIPTION
1	VBUS	POWER
2	D-	USB 2.0 DIFFERENTIAL PAIR
3	D+	
4	GND	GROUND FOR POWER RETURN
5	STDA_SSRX-	SS RECEIVER DIFFERENTIAL PAIR
6	STDA_SSRX+	
7	GND_DRAIN	GROUND FOR SIGNAL RETURN
8	STDA_SSTX-	SS TRANSMITTER DIFFERENTIAL PAIR
9	STDA_SSTX+	
SHELL	SHIELD	CONNECTOR METAL SHELL

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
D	PRODUCT DRAWING (EAR 14805)	AUG12/20	K.L.
E	PRODUCT DRAWING (EAR 14948)	MAR15/21	K.L.



RECOMMENDED PCB LAYOUT
 COMPONENT SIDE OF BOARD



RECOMMENDED PANEL CUTOUT
 OUTSIDE VIEW OF PANEL



UNLESS SPECIFIED OTHERWISE	DRAWN	M.PAHULJE	MAR26/20
PRIMARY UNITS MILLIMETERS	CHECKED	K.LAMBIE	MAR26/20
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE	ENG. REL. NO.	EAR 14805	
2 DECIMAL PLACES ±0.15	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

Amphenol Canada Corp.
 Commercial Products

**MUSBR RUGGED USB CONNECTOR,
 3.0 STANDARD 'A' RECEPTACLE,
 VERTICAL PCB TAIL, ULTRA LOW
 PROFILE SHELL, RoHS COMPLIANT**

DWG. NO. **P-MUSBR-3593-302** REV **E**

CODE ID NO. 03554 DWG SIZE: X SCALE: 4:1 SHEET 2 OF 2