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NOTE  
DATA MARKED WITH AN ASTERISK (\*) IS PECULIAR TO A PRIOR MANUFACTURER. IT DOES NOT TAKE PRECEDENCE OVER ANY OTHER DATA ON THIS DRAWING, AND IS NOT CONTRACTUALLY BINDING ON EITHER THE CONTRACTOR OR THE GOVERNMENT.

1. SCOPE:  
THIS SPECIFICATION COVERS THE REQUIREMENTS FOR A RACK AND PANEL TYPE CONNECTOR
2. APPLICABLE DOCUMENTS:  
THE FOLLOWING DOCUMENTS OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS OR REQUEST FOR PROPOSAL FORM A PART OF THE SPECIFICATION TO THE EXTENT SPECIFIED HEREIN. IN THE EVENT OF ANY CONFLICT BETWEEN THIS DOCUMENT AND THE REFERENCE DOCUMENTS, THIS DOCUMENT SHALL GOVERN.
  - MIL-M-13231 MARKING OF ELECTRONIC ITEMS
  - MIL-G-45204 GOLD PLATING, ELECTRODE DEPOSITED
  - QQ-C-530 COPPER-BERYLLIUM ALLOY BAR, ROD & WIRE (COPPER ALLOY NUMBERS 172 & 173)
  - MIL-M-14 MOLDING PLASTICS & MOLDED PLASTIC PARTS, THERMOSETTING
  - QQ-S-764 STEEL BAR, CORROSION RESISTING, FREE MACHINING
  - QQ-P-35 PASSIVATION TREATMENTS FOR CORROSION-RESISTING STEEL
  - MIL-C-55302 CONNECTOR, PRINTED CIRCUIT SUBASSEMBLY & ACCESSORIES
3. REQUIREMENTS:
  - 3.1 MATERIALS AND CONSTRUCTION:  
MATERIALS, FINISHES, AND MARKING FOR EACH PART SHALL BE AS SPECIFIED HEREIN. WHEN THE MATERIALS, OR CLASS OF MATERIALS, ARE NOT SPECIFIED, A MATERIAL SHALL BE USED WHICH WILL ENABLE THE DEVICE TO MEET ALL THE REQUIREMENTS OF THIS DRAWING. MATERIALS, FINISHES, AND MARKING SHALL NOT BLISTER, CRACK OR FLOW.
    - 3.1.1 PHYSICAL CONFIGURATION: SEE FIGURE 1
    - 3.1.2 MATERIALS AND FINISH:
      - 3.1.2.1 CONTACTS: BERYLLIUM COPPER PER QQ-C-530, GOLD PLATED PER MIL-G-45204
      - 3.1.2.2 MOLDED INSERTS: GLASS FILLED DIALLYL PHTHALATE PER MIL-M-14
      - 3.1.2.3 JACK SCREWS: CRES, SERIES 300, PER QQ-S-764, PASSIVATED PER QQ-P-35
    - 3.2 ELECTRICAL: SHALL MEET THE APPLICABLE ELECTRICAL REQUIREMENTS OF MIL-C-55302
      - 3.2.1 INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC
      - 3.2.2 TEST VOLTAGE: 1000 V, 60 HZ RMS AT SEA LEVEL  
300 V, 60 HZ RMS AT 70,000 FEET
      - 3.2.3 CONTACT RESISTANCE: LESS THAN .025 VOLTS AT 5 AMPS
    - 3.3 MECHANICAL: SHALL MEET THE APPLICABLE MECHANICAL REQUIREMENTS OF MIL-C-55302
      - 3.3.1 CONTACT SEPARATING FORCE: 2-OUNCE MINIMUM, 8-OUNCE MAXIMUM (WHEN MATED)
      - 3.3.2 TYPE CONTACTS: SOLDER CUP

PREPARED IN ACCORDANCE WITH MIL-STD-100A

UNLESS OTHERWISE SPECIFIED		*(330403)		1154)	
CONCENTRICITY MACHINED					
DIAMETERS .004 FIR					
DIMENSIONAL LIMITS APPLY BEFORE PLATING AND COATING					
DRILLED HOLE TOLERANCES					
.013 +.004		.251		THRU +.006	
THRU -.001		.500		THRU -.001	
.125		.501		THRU -.001	
.126 +.005		.501		THRU +.008	
THRU -.001		.750		THRU -.001	
		SM-D-775001		DL-775087	
		NEXT ASSY		USED ON	
		APPLICATION			

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	NDR 036 ECP 0031-T1 194	1/15/80	6-C-0031 <i>[Signature]</i>
B	NDR 0066C1, ECP KIC-32ERIC1	12/22/82	709

SUGGESTED SOURCE(S) OF SUPPLY:

- AIRBORN INCORPORATED (10400)  
4321 AIRBORN  
ADDISON, TEXAS 75001
- TEXAS INSTRUMENTS INCORPORATED (73803)  
METALLURGICAL MATERIALS DIVISION  
34 FOREST ST  
ATTLEBORO, MA 02703 OR EQUAL
- CONTINENTAL CONNECTOR CORPORATION (95238)  
34-63 56TH STREET  
WOODSIDE, N.Y. 11377  
TELEPHONE: (212) 899-4422

SEE CHART FOR VENDOR ITEM NUMBER

MFR PART NO.	PART NO.	MFR PART NO.			NO OF CONTACTS
		SOURCE 1	SOURCE 2	SOURCE 3	
535221-1	SM-C-806916-1	WTB10SECJ	FDO307-10XCMAR105CS-5CND		10

SPECIFICATION CONTROL DRAWING

FIND NO.	QTY REQD	CODE IDENT.	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	NOTE
PARTS LIST						

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON:  
DIMENSIONS DECIMALS ANGLES

TECHNICAL DATA:  
 DWG: *[Signature]* 12/12/82  
 CHK: *[Signature]* 12-12-77  
 ENGR: *[Signature]* 12-16-77  
 OA: *[Signature]* 12-16-77  
 APVD: *[Signature]* 12-16-77  
 RISE: *[Signature]* 11-19-77

DEPARTMENT OF DEFENSE  
U.S. ARMY ELECTRONICS COMMAND  
FORT MONMOUTH NEW JERSEY 07703

CONNECTOR, RECEPTACLE, ELECTRICAL

ELECTRONICS COMMAND

REVIEWED: J. HARRIS  
APPROVED: *[Signature]* E FIRTH  
DATE: 19 DEC 77

SIZE: C  
CODE IDENT NO.: 80063  
SM-C-806916

SCALE: NONE  
SHEET: 1 OF 2

WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE LETTER IF ANY, AND DATE

\* 535221 \* — ECOM FILE BASELINE





