Jameco Part Number 1976751

molex PRODUCT SPECIFICATION molex | LANGUAGE: ENGLISH

TITLE :

75 OHM BNC R/A PCB RECEPTACLE

REV	D	D	D	D	D	D	D
SHT	1	2	3	4	5	6	7

REVISION PC ONLY		TITLE: 75 OHM BNC R/A PCB RECEPTACLE			
D	PER ECN RF98-005				
REV	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DESIGN CENTER: MOLEX TAIWAN	STATUS: M	WRITTEN BY: RANDY	CHECK BY: Sam	APPROVED BY: Wally	DATE: YR/MO/DAY - 94/06/14
DOCUMENT NO.: PS-73598-0051				FILE NAME: PS980051.SAM	SHT NO.: 1 OF 8

1.0 SCOPE

This specification covers the performance requirements and characteristics for 75 OHM BNC R/A PCB RECEPTACLE

2.0 APPLICABLE DOCUMENTS

2.1 Molex Drawing
Per applicable Molex Sales Drawing

2.2 The following document form a part of this specification to the extent specified herewith. In the event of conflict between the requirements of the specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of the specification and he referenced documents, this specification shall take precedence.

MIL-STD-202 Test Methods for Electronic and Electrical Component Parts
MIL-STD-1344 Test Methods for Electrical Connectors
MIL-STD-39012 Test Sequence

3.0 MATERIAL SPECIFICATIONS

3.1 Design and Construction
Connector shall be of the design, construction and physical dimensions specified on the applicable sales drawing

3.2 Materials
Refer to Molex Sales Drawing

3.3 Finish
Specification detail shown on sales drawing

3.4 Performance and Test Description
Connector shall be designed to meet the electrical, mechanical and environmental performance

4.0 RATING

Item	Rating
Working Voltage	500 VRMS max. @ Sea Level
Impedance	75 Ohms Nominal
Frequency Range	dc to 2 GHz
Temperature Range	-20° C to +70°C

ELECTRICAL

Item	Requirement	Test Methods
5.1.1 Contact Resistance	Center Contact : a) Initial :15.0 milliohms max. b) After various tests : 15.5 milliohms max. Outer Contact : a) Initial : 3.0 milliohms max. b) After various tests : Not applicable	According to MIL-STD-202F, Method 307.
5.1.2 Insulation Resistance	5000 Megaohms min.	According to MIL-STD-202F, Method 302, Test condition A.
5.1.3 Dielectric Withstanding Voltage	1500 VRMS min. @ Sea Level	According to MIL-STD-202F, Method 301.

MECHANICAL

Item	Requirement	Test Methods
5.2.1 Force to Engage/Disengage	Logitudinal Force : 3 pounds max. Radial Torque : 2.5 inch-pounds max.	
5.2.2 Insertion / Withdraw Force (Center Contact)	Insertion : 3 pounds max. Withdraw : 2 ounce min.	
5.2.3 Durability	a) No damage to interface b) Meet the requirments of 5.2.1	After 500 mating cycles @ 12 cycles per minute According to MIL-STD-1344A, Method 2016.1
5.2.4 Center Contact Retention Force	6.0 pounds axial force min.	According to MIL-STD-1344A, Method 2007.1

ENVIRONMENT

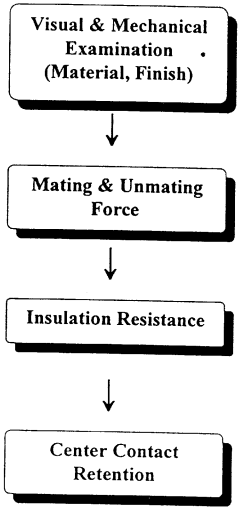
Item	Requirement	Test Methods
5.3.1 Corrosion (Salt Spray)	No evidence of surface degration when inspected at 10x magnification.	According to MIL-STD-202F, Method 101D. Test condition B
5.3.2 Mechanical Shock	No discontinuity greater than 1m.sec. when subjected to a shock pulse with a peak value of 50 G for a 11m.sec. duration.	According to MIL-STD-202F, Method 213B. Test condition G
5.3.3 Vibration	No discontinuity greater than 1m.sec. when subjected to sinusoidal vibration with a 0.03 inch amplitude using a swept frequency range of 10-55 Hz.	According to MIL-STD-202F, Method 204D. Test condition A

5.3.4 Moisture Resistance	Insulation Resistance shall be at least 200 megohms within 5 minutes after removal from chamber. Parts will be tested for insulation resistance followed by initial conditioning @ 50°C drying oven (humidity uncontrolled) for 4 hours, followed by 25°C (humidity uncontrolled) for 2-3 hours. Parts will then be subjected to the following conditions : [Step 1] Temperature ramp (25-65)°C during a 2.5 hr period @ (90-100)%RH [Step 2] Temperature = (65)°C during a 3 hr period @ (90-100)%RH [Step 3] Temperature ramp (65-25)°C during a 2.5 hr period @ (80-100)%RH [Step 4] Temperature ramp (25-65)°C during a 2.5 hr period @ (90-100)%RH [Step 5] Temperature = (65)°C during a 3 hr period @ (90-100)%RH [Step 6] Temperature ramp (65-25)°C during a 2.5 hr period @ (80-100)%RH [Step 7] Temperature = (25)°C during a (2+/-1)hr period @ (90-100)%RH	According to MIL-STD-202F, Method 106F. (Less step 7a&b)

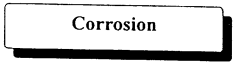
6. Test Groups and Test Sequences :

The tests are categorized into 4 major Groups. The test sequences are defined as follow .

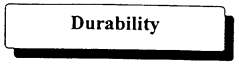
GROUP I



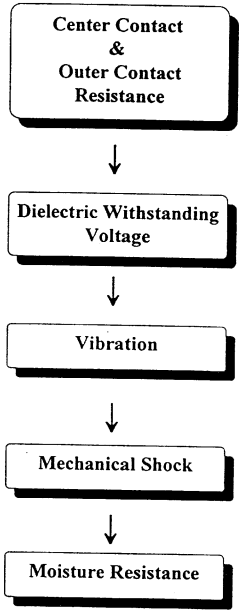
GROUP II



GROUP III



GROUP IV



MATERIALS AND FINISHES

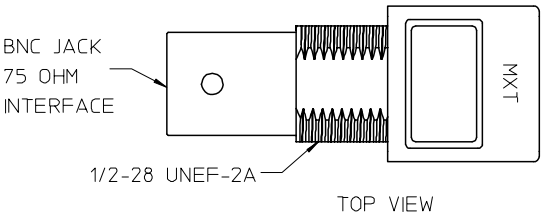
BODY ZINC ALLOY
PLATED NICKEL

CENTER CONTACT PHOSPHOR BRONZE
PLATED GOLD

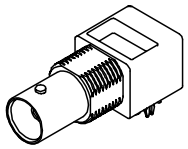
INSULATOR POLYPROPYLENE(94V2)

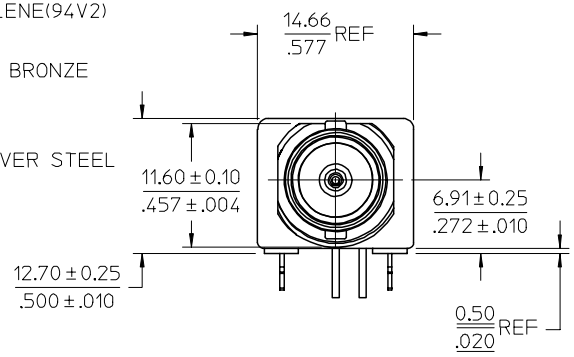
BOARD LOCK PHOSPHOR BRONZE
PLATED TIN

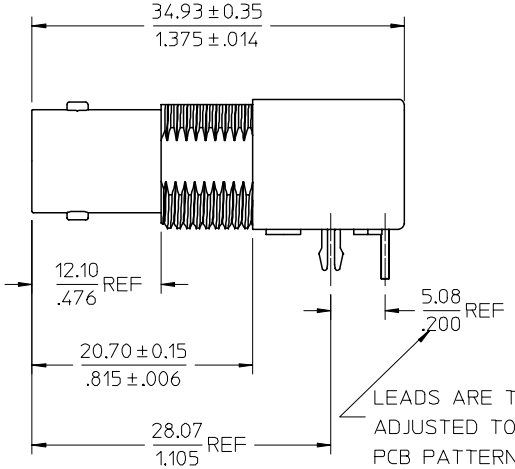
SOLDER TAIL COPPER OVER STEEL
PLATED TIN

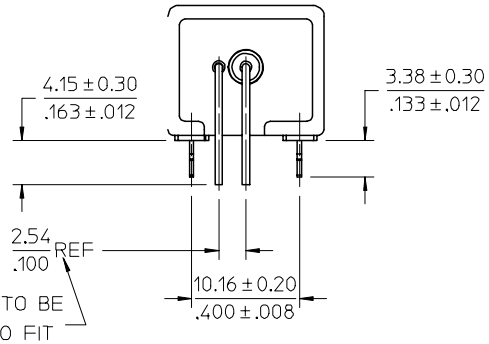


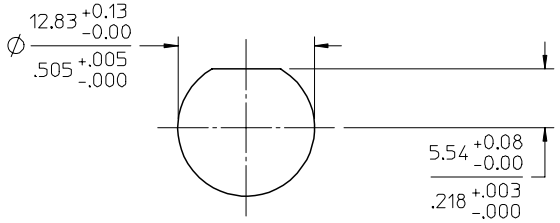
TOP VIEW





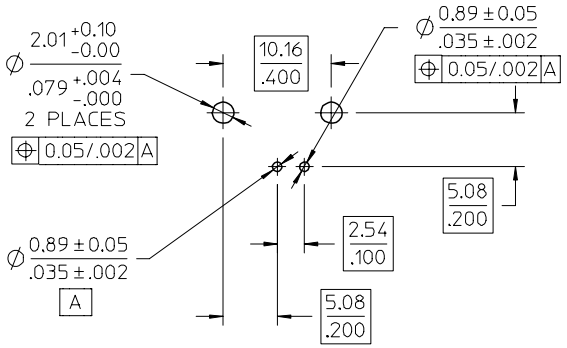






RECOMMENDED MOUNTING HOLE
PANEL THICKNESS: 5.40(.216) MAX
RECOMMENED MOUNTING TORQUE:
1.36 N-m(12 INCH LBS) MAX

PART # 73101-0120



RECOMMENDED PCB HOLE
CONFIGURATION

PS-73598-0051	PRODUCT SPECIFICATION
SPECIFICATION	DESCRIPTION

CHG: REDREW IN SD
EC NO: URF2007-0416 2007/04/19
DRWN:TFLAHERTY 2007/04/19
CHKD:SSHAH 2007/04/19
APPR: JWIENER 2007/04/19
DESCRIPTION
REV
B1

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: LYNN LIN DATE: 1996/07/12
CHECKED BY DATE
APPROVED BY DATE

TITLE: BNC JACK,R/A PCB,75 OHMS DIE CAST, RECEPTACLE BNC-J/RA/PCB

MOLEX INCORPORATED

MATERIAL NO.: 731010120
DOCUMENT NO.: SD-73101-0120
SHEET NO.: 1 OF 1
SIZE C