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Jameco Part Number 1976769

MOLEX TAIWAN LTD (RF)

TITLE : 50 OHMS BNC R/A PCB RECEPTACLE

G	MODIFY	CONTACT	EMILY	TITLE : 50 OHMS BNC R/A PCB RECEPTACLE		
F	ADDED MATERIAL	IRIS				
REV	DESCRIPTION	SIGN	Product Specification			
				THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
DOCUMENT NO PS - 73598-0050				Prepared By: R. Wolff Checked By: <i>Sm</i> Approved By: <i>Wally</i>	Date: 94/9/08 Date: 97/10/17 Date: 97/10/20	SHEET NO. 1 of 7

MOLEX TAIWAN LTD (RF)

1.0 SCOPE

This specification covers the performance requirements and characteristics for
50 OHMS BNC R/A PCB RECEPTACLE

2.0 APPLICABLE DOCUMENTS SPECIFICATIONS

2.1 Per applicable Molex Material Spec. refer to Sales and Engineering Drawings.

3.0 PRODUCT DESCRIPTION

3.1 Product Name

50 OHMS BNC R/A PCB RECEPTACLE

3.2 Material

Refer to respective sales drawing

3.3 Finishes

Refer to respective sales drawing.

4.0 RATINGS

Item	Rating
Working Voltage	500 VRMS @ Sea Level
Impedance	50 Ohms Nominal
Frequency Range	0 ~ 2.0 GHz
Temperature Range	-20 deg. C to + 70 deg. C

5.0 PERFORMANCE SPECIFICATIONS

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5.1 Mating Characteristics

<u>Test Item</u>	<u>Test Spec.</u>	<u>Test Condition</u>
Force to engage and disengage	Longitudinal force: 3 lb pounds max. Torque: 2.5 inches pounds max.	
Insertion and Withdrawal Force	Insertion force: 3 pounds max. Withdrawal force: 2 ounces min.	Test pin gauge: Insertion force: 1.37mm Dia. Withdrawal force: 1.32mm Dia.

5.2 Electrical Performance

<u>Test Item</u>	<u>Test Spec.</u>	<u>Test Condition</u>
Contact Resistance	Center Contact: 15.0 milliohms max.initial Outer Contact: 3.0 milliohms max.	
Insulation Resistance	5000 megohms min.	MIL-STD-202F, Method 302 Condition B
Dielectric Withstanding Voltage	1500 volts rms. min.	at sea level

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5.3 Mechanical Performance

<u>Test Item</u>	<u>Test Spec.</u>	<u>Test Condition</u>
Durability	a) No damage to interface b) meet the requirements of 5.1 Force to engage and disengage	After 500 mating cycles @ 12 cycles per minute
Center Contact Retention Force	6.0 pounds axial force min.	

5.4 Environmental Performance

<u>Test Item</u>	<u>Test Spec.</u>	<u>Test Condition</u>
Corrosion (Salt Spray)	No exposure of base metal at mating surface	MIL-STD-202F, Method 101D. Test Condition B.
Moisture Resistance	Insulation resistance should be at least 200 megohms within 5 minutes after removal from humidity.	MIL-STD-202F, Method 106F, (Less Step 7a & b)
Vibration	No discontinuity permitted when subjected to sinusoidal vibration having a 15 G excitation force and a 0.06 inch amplitude. Swept frequency range between 10 to 2000 HZ.	MIL-STD-202F, Method 204D, Test Condition B

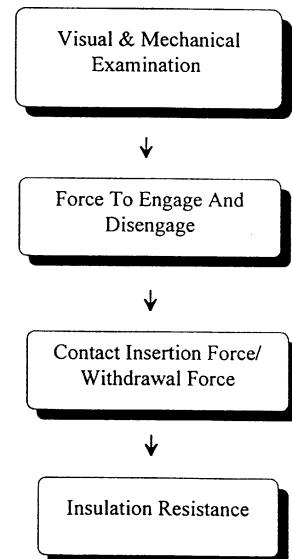
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Mechanical Shock	No Discontinuity permitted when subjected to a saw tooth shock pulse of 50 G acceleration with a 11 Ms duration.	MIL-STD-202F, Method 213B, Test Condition A
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6.0 Test Sequence

GROUP I



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			Checked By: <i>Emm</i>	Date 97/10/17		
			Approved By: <i>Wally</i>	Date 97/10/20		

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GROUP II

Center Contact
Retention Force



Corrosion

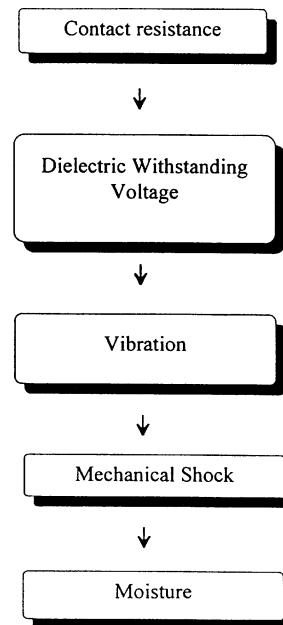
GROUP III

Durability

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				Checked By: <i>Sam</i>	Date 971017	6 of 7	
				Approved By: <i>Wally</i>	Date 971020		

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GROUP IV

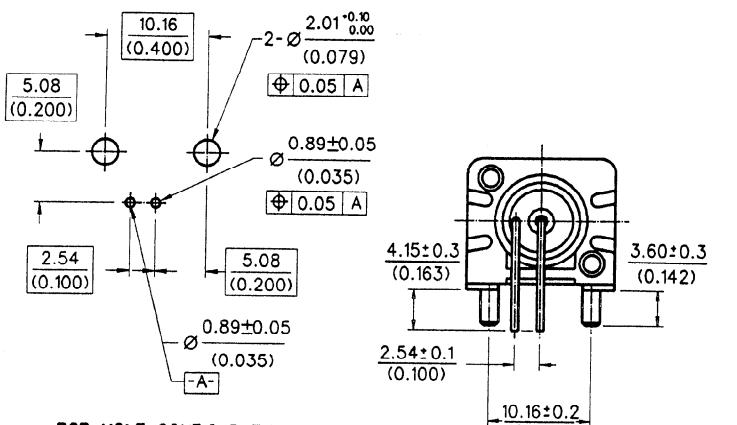


7. Packaging:

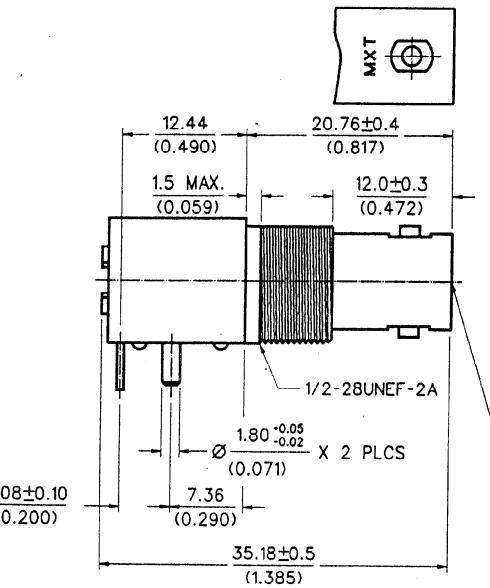
Parts shall be packaged to protect against damage during handling, transit, and storage.

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			Approved By: Wally	Date: 97/10/20		

	8	7	6	5	4	3	2	1
CADFILE NO. S1375003.DGN DO NOT SCALE DRAWING	ENG. NO SDA-73137-5003							
	SIMILAR ITEM	EDP NO.						



PCB HOLE CONFIGURATION



INTERFACE PER MOLEX STANDARD ES-73599-0000

CONSTRUCTION:

BODY ----- ZINC ALLOY
H HOUSING ----- POLYESTER BUTYLENE
 CENTER CONTACT ----- PHOSPHOR BRONZE
 DIELECTRIC ----- POLYPROPYLENE (94V2)
 MOUNTING POST ----- BRASS
 SOLDER TAIL ----- COPPER OVER STEEL WIRE
 WASHER ----- PHOSPHOR BRONZE
 NUT ----- BRASS

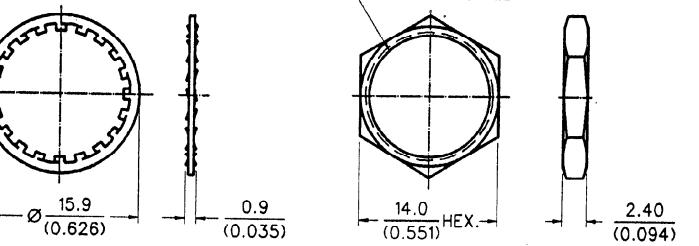
FINISH:

BODY ----- NICKEL PLATING
G CENTER CONTACT ----- GOLD FLASH
 SOLDER TAIL ----- TIN PLATING
 MOUNTING POST ----- TIN PLATING
 WASHER ----- NICKEL PLATING
 NUT ----- NICKEL PLATING

MECHANICAL & ELECTRICAL CHARACTERISTICS:
 PER PRODUCT SPECIFICATION PS-73598-0050

MATERIAL & FINISHES:
 PER PRODUCT SPECIFICATION PS-73598-0050

PACKAGING:
 PLASTIC TRAYS



RECOMMENDED MOUNTING HOLE
MAXIMUM PANEL THICKNESS: 5.5 mm
RECOMMENDED MOUNTING TORQUE 5 inch-pounds MAX.

MATERIAL : SEE NOTES							
FINISH : SEE NOTES							
SCALE : 2:1	UNIT : mm(INCH)						
DRAWN BY : LILY CHEN	92/09/24						
G	CONVERT TO NEW FORMAT, ETC.	0637	55/09/26	CHK'D BY : <i>Wang 95/10/18</i>			
LTR	REVISION RECORD	ECN	DR	DATE	APPR'D BY : <i>Z. Jia 95/10/23</i>		
STANDARD ITEM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	SHEET	1	OF 1		

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MXT , So - 13

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BNC-J/PCB/RA/BK