

Distributed by:

JAMECO[®]
ELECTRONICS

www.Jameco.com ♦ 1-800-831-4242

The content and copyrights of the attached
material are the property of its owner.

Jameco Part Number 1976726



75 OHM BNC R/A PCB RECEPTACLE

RNC-PS/I/R A/PCR



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

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

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: <i>Sam</i>
		APPROVED BY: <i>wally</i>	DATE: YR/MO/DAY - 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM	SHT NO. 2 OF 8



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

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.

REVISION PC ONLY		TITLE: 75 OHM BNC R/A PCB RECEPTACLE			
D	PER ECN RF98-005	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
REV	DESCRIPTION				
DESIGN CENTER MOLEX TAIWAN	STATUS M	WRITTEN BY: RANDY	CHECK BY: <i>Sam</i>	APPROVED BY: <i>Wally</i>	DATE: YR/MO/DAY 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM		SHT NO. 3 OF 8	



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

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

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: <i>Sam</i>
		APPROVED BY: <i>wally</i>	DATE: YR/MO/DAY 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM	SHT NO. 4 OF 8



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

ENVIRONMENT

Item	Requirement	Test Methods
5.3.1 Corrosion (Salt Spray)	No evidence of surface degradation 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

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: <i>Sam</i>	APPROVED BY: <i>wally</i>	DATE: YR/MO/DAY 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM		SHT NO. 5 OF 8	



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

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)

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: <i>Sam</i>	APPROVED BY: <i>vally</i>	DATE: YR/MO/DAY - 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM		SHT NO. 6 OF 8	



PRODUCT SPECIFICATION



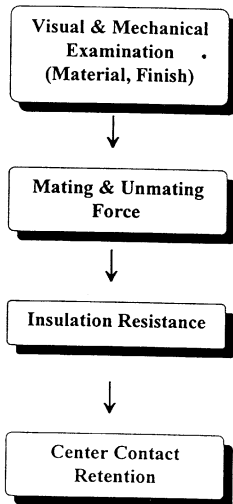
LANGUAGE

ENGLISH

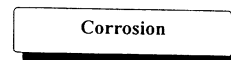
6. Test Groups and Test Sequences :

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

GROUP I



GROUP II



REVISION PC ONLY		TITLE: 75 OHM BNC R/A PCB RECEPTACLE			
D	PER ECN RF98-005	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
REV	DESCRIPTION				
DESIGN CENTER MOLEX TAIWAN	STATUS M	WRITTEN BY: RANDY	CHECK BY: <i>Sam</i>	APPROVED BY: <i>Wally</i>	DATE: YR/MO/DAY 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM		SHT NO. 7 OF 8	



PRODUCT SPECIFICATION



LANGUAGE

ENGLISH

GROUP III

Durability

GROUP IV

**Center Contact
&
Outer Contact
Resistance****Dielectric Withstanding
Voltage****Vibration****Mechanical Shock****Moisture Resistance**

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: <i>Sam</i>	APPROVED BY: <i>Wally</i>	DATE: YR/MO/DAY 94/06/14
DOCUMENT NO. PS-73598-0051		FILE NAME PS980051.SAM		SHT NO. 8 OF 8	

MATERIALS AND FINISHES

BODY ZINC ALLOY
PLATED NICKEL

HOUSING PLOYESTER BUTYLENE TEREPTALATE
COLOR: BLACK

CENTER CONTACT PHOSPHOR BRONZE
PLATED GOLD

INSULATOR POLYPROPYLENE (94-V2)

MOUNTING POST BRASS
PLATED TIN

SOLDER TAIL BRASS WIRE
PLATED TIN

LOCKWASHER PHOSPHOR BRONZE
PLATED NICKEL

JAM NUT BRASS
PLATED NICKEL

BNC JACK
INTERFACE

1/2-28 UNEF-2A

JAM NUT

LOCKWASHER

RECOMMENDED MOUNTING HOLE
PANEL THICKNESS: 5.50(.217) MAX
RECOMMENDED MOUNTING TORQUE:
0.56 (N 5 INCH-LBS) MAX

RECOMMENDED PCB
CONFIGURATION

73171-6090	73100-0067 W/O NUT AND WASHER, PACKAGE BY TRAY
73171-2980	73100-0067, ONE PER BAG
73100-0067	PLASTIC TRAYS
PART NO.	PACKAGING

ES-73599-0000	INTERFACE
PS-73598-0051	PRODUCT SPECIFICATION
SPECIFICATION	DESCRIPTION

ADDED P/N 73171-6090

EC NO: URF2009-0317
2008/12/11
DRW: NIELIN
2008/12/16
CHKD:
APPR: MHUANG
2008/12/16

QUALITY
SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0002
3 PLACES	± .003	± .0001
2 PLACES	± .002	± .0001
1 PLACE	± .001	± .0001

ANGULAR ± 2 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY
C.M.HUNG

DATE
1993/02/01

CHECKED BY

DATE

APPROVED BY
KWH

DATE
1993/04/01

MATERIAL NO.

SEE TABLE

SCALE
DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

BNC JACK, R/A, PCB
RECEPTACLE, 75 OHMS
BNC-J/RA/PCB

MOLEX INCORPORATED

DOCUMENT NO.
SD-73100-0067

SHEET NO.
1 OF 1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION