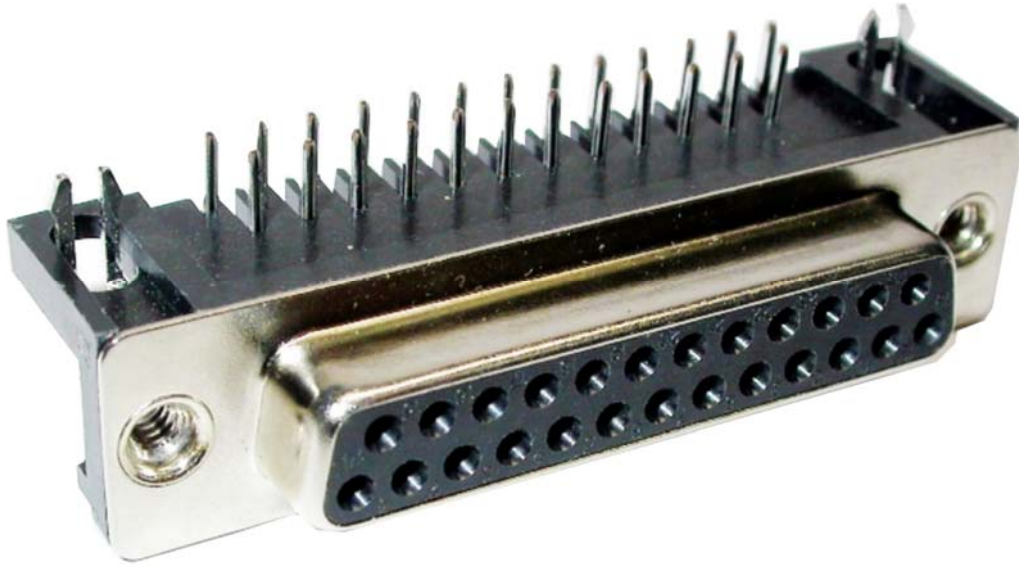




PRODUCT SPECIFICATION



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REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	DR*(F)XR & DRH(F)XR SERIES	SHEET No
C	EC No:	RD-T160052	PRODUCT NAME	D Subminiature connector Right Angle	1 of 5
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
PS-DS-0001		LINDA		JERRY.TUNG	KIMI.HSU



PRODUCT SPECIFICATION

1.0 SCOPE

This specification defines the performance for the D Subminiature connector

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

The D Subminiature connector for **DR*(F)XR & DRH(F)XR** series

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See appropriate sales drawings for details on dimensions, materials, plating and markings.

2.3 SAFETY AGENCY APPROVALS

See appropriate sales drawings

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Please refer to the Sales Drawings, and other sections of this Specification for specific references to applicable documents and specifications. In cases where the Product Specification differs from the Sales Drawings, the Sales Drawing will take precedence

EIA-364 TEST METHODS FOR ELECTRICAL CONNECTORS

4.0 RATINGS

4.1 VOLTAGE

300 Volts DC

4.2 CURRENT

5A Max.

4.3 TEMPERATURE

Operating Temperature Range: - 55°C ~ + 105°C

Storage Temperature Range: - 55°C ~ + 105°C

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C	EC No:	RD-T160052	PRODUCT NAME	D Subminiature connector Right Angle	2 of 5
	DATE:	2016/11/29			
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5.0 PERFORMANCE

Item	Test Items	Requirement	Procedures
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Specimens shall be investigated by 10x (or higher) microscope.

Electrical Requirements

2	Contact Resistance	13 milliohms Max(Initial)	Subject mated contacts assembled in housing to 20mV maximum open circuit at 100mA maximum. Per EIA 364-23
3	Insulation Resistance	1000 Mega Ohm Min.	After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies. Per EIA 364-21
4	Dielectric Withstanding Voltage	No breakdown; current leakage < 5mA	Apply a voltage 1000 VAC for 1 minute between adjacent terminals and between terminals to ground. Per EIA 364-20
5	Current Rating	Temperature rise: 30°C Max.	Apply the rated current to connector, Per EIA 364-70

Mechanical Requirements

6	Durability	△R: 30 milliohms Max (change from initial)	Operation Speed: 25 mm/minutes. Durability Cycles: 300 Cycles EIA 364-09.
7	Vibration	△R: 30 milliohms Max (change from initial) & No electrical discontinuity greater than 1µsec.	Subject mated connectors to 10-50-10 Hz traversed in 1minutes at 1.52mm amplitude for 2 Hour in each of tree directions(total of 6 hours) Per EIA 364-28; Test condition I
8	Mechanical Shock	△R: 30 milliohms Max (change from initial) & No electrical discontinuity greater than 1µsec.	Accelerate Velocity: 490m/ s ² (50G) Waveform: 11ms Half-sine shock Velocity Change: 3.4m/s No. of Drops: 3 drops each to normal and reversed directions of X,Y and Z axes, totally 18 drops, passing 1mA current during the test. Per EIA 364-27
9	Mating and Un-mating Force	See Table 1	Mate the connector with its mating part and measure force. Operation Speed: 25 mm/minutes.

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Environment Requirements

10	Thermal Shock	△R: 30 milliohms Max. (change from initial) & Appearance: no damage	Place free situation samples in chamber with 5 cycles, and one duration is -55°C/(0.5h)~ 105°C/(0.5h). Per EIA-364-32
11	Static Humidity	△R: 30 milliohms Max. (change from initial) & Appearance: no damage	Test mated connector in chamber and expose to a temperature of 40 ± 2°C with a relative humidity of 90~95% for 96 hours. Per EIA 364-31
12	Solder ability	Solder coverage: 95% MINIMUM	Dip solder tails into the molten solder (held at 245±5°C for 3 ±0.5 sec). Per EIA 364-52
13	Solder Heat Resistance	Visual: No Damage to insulator material	Place connector applicable P.C.B footprint and float on solder bath at 260°C for 10 seconds. Per EIA 364-56 ; Refer to Fig.1
14	Salt Spray	△R: 30 milliohms Max. (change from initial) & Appearance: no damage	Duration: 48 hours exposure; Atmosphere: salt spray from a 5% solution. Temperature: 35 +1/-2°C Per EIA 364-26
15	Heat Temperature Life	△R: 30 milliohms Max. (change from initial) & Appearance: no damage	Simulate mated situation samples at 105°C for 96 hours. Per EIA 364-17
16	Cold Temperature Life	△R: 30 milliohms Max. (change from initial) & Appearance: no damage	Simulate mated situation samples at -55°C for 96 hours Per EIA 364-59

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. See packaging appropriate drawings

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C	EC No:	RD-T160052	PRODUCT NAME	D Subminiature connector Right Angle	4 of 5
	DATE:	2016/11/29			
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
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7.0 RECOMMENDED WAVE SOLDERING PROFILE WAVE SOLDERING PROFILE

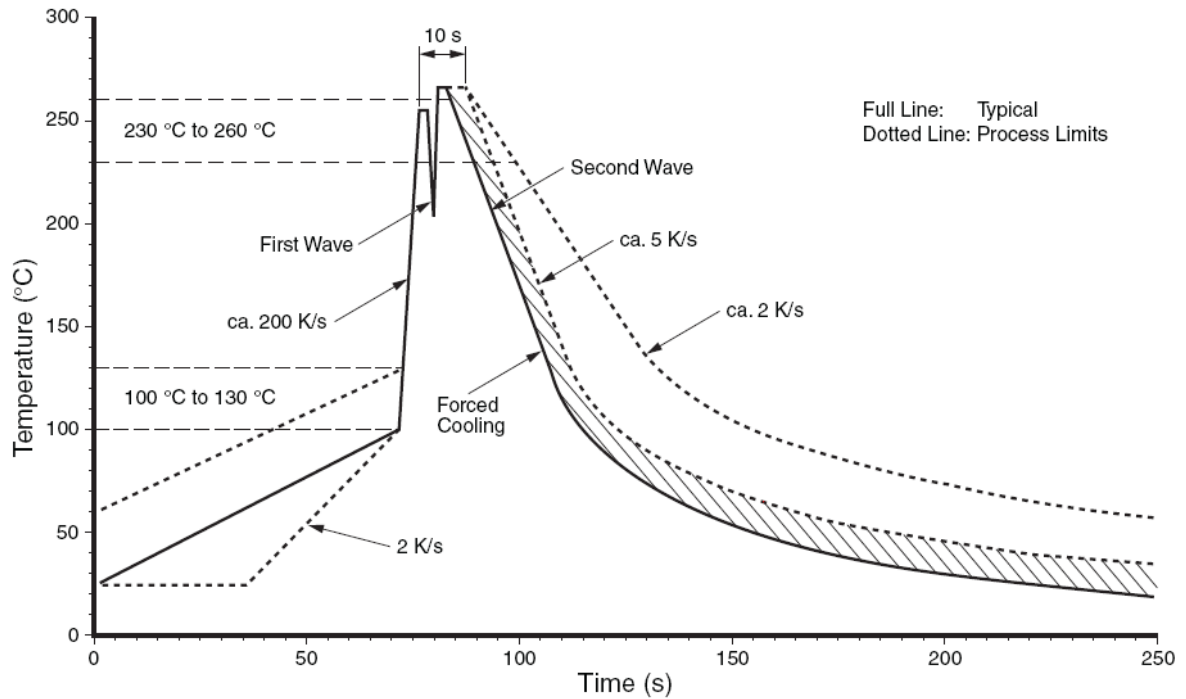


FIG.1
table 1

CKTS	Mating force	unmating force
9	4.54kg max	0.34kg min
15	7.72kg max	0.45kg min
25	12.71kg max	0.79kg min
37	17.71kg max	1.14kg min

High density

CKTS	Mating force	unmating force
15	5.50kg max	1.0kg min
26	7.72kg max	1.0kg min
44	12.71kg max	1.0kg min
62	17.71kg max	1.0kg min

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