The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS produces here been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

Low-Cost SMA Coaxial Connectors (Version 2)

HRM(V) Series



Features

1. Reduced cost

A change in the manufacturing methods makes the connectors more economical to use.

2. Complete compatibility with SMA Coaxial Connectors

3. High degree of impedance matching

V.S.W.R. of 1.2 max. for frequencies of DC to 10 GHz V.S.W.R. of 1.3 max. for frequencies of 10 to 18 GHz

4. High durability

500 mating /un-mating cycles, with corresponding connector.

5. RoHS compliant

All components and materials comply with the requirements of EU Directive 2002/95/EC.

Applications

Mobile communications base stations, microwave equipment, measuring instrumentation and other applications requiring use of reliable coaxial connections with SMA connectors.

Typical Data

Measurement system HRM(V) Series Measurement Adapter



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Specifications

Ratings	Nominal characteristic impedance	50Ω	Operating temperature range	-55℃ to +85℃
	Frequency range	DC to 18 GHz	Operating relative humidity	95% max.

Item	Specification	Conditions	
1.Insulation resistance	5000M Ω min.	500V DC	
2.Withstanding voltage	No flashover or insulation breakdown	1,000 V AC / 1 minute	
3.Contact resistance	Center contact: 6 m Ω max. Outer shell: 6 m Ω max.	100 mA max.	
4.Center contact retention	0.3 N min.	Measured with 0.9017 mm dia. pin gauge	
5. V.S.W.R.*	1.2 max. 1.3 max.	DC to 10 GHz 10 to 18 GHz	
6.Vibration	No electrical discontinuity of 1 μ s or longer No damage, cracks, or parts dislocation	Frequency: 10 to 2,000 Hz, single amplitude of 0.75 mm, acceleration of 196 m/s ² , 4 hours in each of the 3 directions	
7.Moisture resistance	Insulation resistance: 100 M Ω min. (high humidity) Insulation resistance: 5,000 M Ω min. (dry) No damage, cracks, or parts dislocation	10 cycles (240 hours) at a temperature of $+25$ to $+65$ °C, and humidity of 90 to 98%	
8.Temperature cycle	$\begin{array}{c} \mbox{Center contact: 8 m}\Omega\mbox{max.}\\ \mbox{Outer shell:} 8 m}\Omega\mbox{max.}\\ \mbox{No damage, cracks, or parts looseness} \end{array}$	Temperature: -55° C → $+5^{\circ}$ C to $+35^{\circ}$ C → $+85^{\circ}$ C → $+5^{\circ}$ C to $+35^{\circ}$ C Time: 30 min. → 5 min. → 30 min. → 5 min. 5 cycles	
9.Durability	Contact resistance Center contact: 8 mΩ max. Outer shell: 8 mΩ max. No damage, cracks, or parts dislocation	500 cycles	
10.Salt spray	No corrosion	5% salt water solution, 48 hours	

*V.S.W.R. Measurement System

Measured as shown on the block diagram below.



Note 1: Board connectors were measured while mounted to a dedicated adapter.

Materials / Finishes

Receptacle

Part	Material	Finish
Shell	Stainless steel	Passivated
Female center contact	Beryllium copper	Gold plated
Center contact	Brass	Gold plated
Insulator	PTFE	

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Receptacles 6 9.55 12.7 4-62.0 1.7 8.64 1.6 φ1.27 40.7 8.64 12.7 1/4-36UNS-2A All dimensions: mm RoHS Part Number CL No. HRM(V)-301S 323-0884-5 YES 5.5 9.55 12.7 2.5 1.7 4-42.0 8.64 φ1.27 φ0.7 *ø*4.12 12.7 8.64 1/4-36UNS-2A All dimensions: mm Part Number CL No. RoHS YES HRM(V)-302S 323-0885-8 9.55 12.7 0.6(Slit terminal) 1.7 8.64 φ1.27 8.64 12.7







φ4.12



-	` /	All dimensions: mm
Part Number	CL No.	RoHS
HRM(V)-304S	323-0886-0	YES

(¢1.27) (¢1.27) 0.6(Half cut terminal)	9.55 1.7 0 0 1/4-36UNS-2A		~ ~ ~ ~
Part Number CL No.			RoHS
HRM(V)-306S	323-0879-5		YES

A-62.0





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