

# Non-reflective Terminations (SMA Type)

## HRM-TM Series



### ■Features

#### 1.High Performance

These super wide bandwidth/ultra high matching non-reflective termination use Hirose Electric original high frequency matching technology.

#### 2.Equipped with SMA Connectors

Use of SMA connectors (Hirose Electric HRM Series) which feature stainless steel for the exterior cladding make these couplers durable.

### ■Product Specifications

Ratings	Frequency range (Note) Characteristic impedance Maximum Input Power (Note)	DC to 26.5 GHz 50 ohms 0.25 to 10 W	Operating temperature range Operating relative humidity	-10°C to +65°C 95% Max.
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Note: The frequency range and the maximum input power will differ depending on the products.

Item	Standard	Conditions
1.Vibration	No electrical discontinuity of 1 $\mu$ s or more No damage, cracks, or parts dislocation	Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s <sup>2</sup> for 2 hours in each of 3 directions
2.Shock		Acceleration of 490 m/s <sup>2</sup> , sine half-wave waveform, 3 cycles in each of the 3 axis
3.Temperature cycle	No damage, cracks, or parts dislocation	Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C Time: 30 → 15 max. → 30 → 15 max. (Minutes) 5 cycles

- The test method conforms to MIL-STD-202.
- Please see the specification items for details concerning the VSWR.

### ■Materials

Part	Material	Finish
Connector Body (Note)	Stainless steel	Nickel plating
Insulation	PTFE	—
Male contacts	Brass	Gold plating
Female contacts	Beryllium copper	Gold plating
Outer conductor	Brass	Nickel plating
Coupling (Note)	Stainless steel	Passivated
Radiator	Aluminum	Black alumite
Resistor	Metal film	—

Note: The external cladding and coupling of HRM-601(40), HRM-602(40), and HRM-603(40) have received gold plating processing.

## Ordering Information

**HRM - 601 S (40)**

① ② ③ ④

① Series Name: HRM Series
② 600 to 699: Indicates a non-reflective termination.
③ Coupling Finish Blank: Gold plating S: Passivated A: Passivated (HRM-601S type without cap) D: Passivated (With connection leads)
④ (4*): RoHS Compliant

**HRM - TM P - 5 - 2 (40)**

① ② ③ ④ ⑤ ⑥

① Series Name: HRM Series	④ Power (Example) 05: 0.5 W 2: 2 W
② TM: Indicates a non-reflective terminator.	
③ Connector type P: Plug type J: Jack type	⑤ Suffix
	⑥ (4*): RoHS Compliant

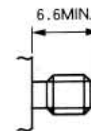
## Specifications

Part Number	Frequency Range (GHz)	V.S.W.R.(Max)						Power (W)	Connectors	Weight (g)	RoHS
		DC~2GHz	2~4GHz	4~8GHz	8~12.4GHz	12.4~18GHz	318~26.5GHz				
HRM-601(40) HRM-601S(40)	DC~18	1.08		1.10	1.12	1.15	—	1/4	HRM-P	3	YES
HRM-601A(40)	DC~18	1.08		1.10	1.12	1.15	—	1/4	HRM-P	3	
HRM-601A(42)	DC~26.5	1.08		1.10	1.12	1.15	1.20	1/4	HRM-P	3	
HRM-601D(40)	DC~18	1.08		1.10	1.12	1.15	—	1/4	HRM-P	3	
HRM-602(40) HRM-602S(40)	DC~18	1.08		1.15		1.35	—	1/4	HRM-J	4	
HRM-603(40) HRM-603S(40)	DC~18	1.08		1.10	1.12	1.15	—	1/4	HRM-P	5	
HRM-TMP-05(40)	DC~18	1.08		1.10	1.12	1.15	—	1/2	HRM-P	3	
HRM-TMP-2(40)	DC~18	1.10	1.15	1.20	1.25	1.25	—	2	HRM-P	11	
HRM-TMP-3(40)	DC~8	1.10	1.15	1.20	—	—	—	3	HRM-P	40	
△ HRM-TMP-5-2(40)	DC~18	1.20			1.30		—	5	HRM-P	42	
Note 1 △ HRM-TMP-6(40)	DC~8	1.10	1.15	1.20	—	—	—	6	HRM-P	56	
△ HRM-TMP-10-2(40)	DC~18	1.20			1.30		—	10	HRM-P	82	

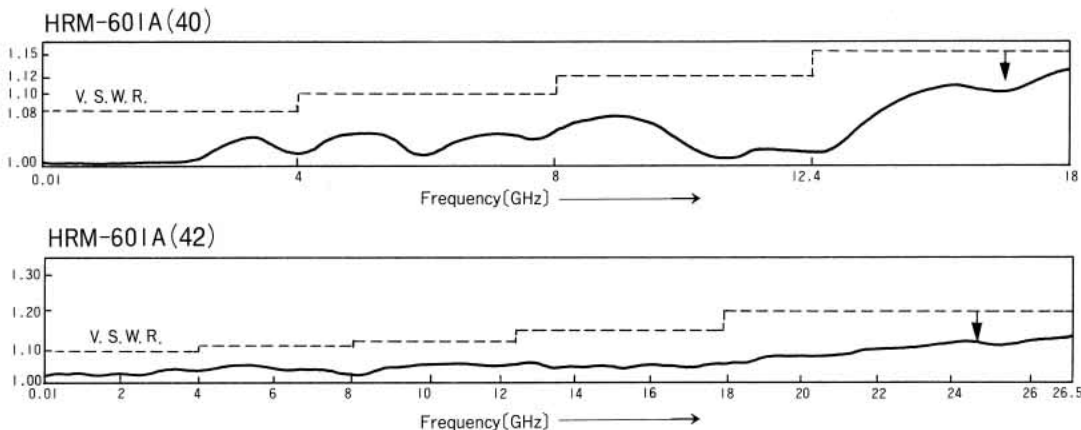
Note 1: When □300 metal plates are attached

Note 2: When connection leads are to be attached to the jack connector side, please use a leading dimension of 6.6 mm or greater from the mounting surface.

△ CAUTION: Beryllia is used in this product. Please follow associated laws when disposing.



## Typical Data



HRM-TM Series Non-reflective Terminations (SMA Type)

External Dimensions

