DC to 65 GHz HV Coaxial Connector Plug Terminations

HV-TM Series



Overview

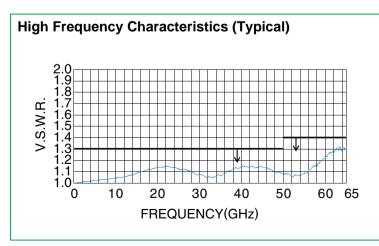
Low V.S.W.R. in the extremely high frequency band and lightweight, supporting the next generation of even higher signal speeds. A suspended substrate line is used to achieve the extremely high bandwidth and our unique design of the interior components removes coupling stress, while maintaining high reliability.

Features

- 1. Low V.S.W.R. 1.15 (Typical DC to 50 GHz) 1.35 (Typical 50 to 65 GHz)
- 2. Space-saving design
 - Overall dimensions of only 9 mm dia. x 18.3 mm long
- 3. Lightweight

Total weight of only 5.5 g.

- 4. Usable over an extremely wide bandwidth Usable over an extremely wide bandwidth of frequencies: DC to 65 GHz.
- 5. Mating compatibility Will mate with corresponding V Connector™. (Note)
- 6. Environmental considerations Soldering compounds are lead-free.



Note: V Connectors is a registered trademark of Anritsu Corporation.

Applications

- * Optical transmission devices
- * Network analyzers
- * BERTS (Bit Error Ratio Testing Systems)
- * FWA (Fixed Wireless Access)

and for measurement purposes in other applications requiring frequencies of up to 65 GHz.

Product Specifications

	Frequency range	DC to 65GHz	Operating temperature range	-10℃ to +65℃
	Characteristic impedance	50 ohms		
Rating	Power	0.5W (At 65℃)		90% max.
	V.S.W.R.	1.3 max. (DC to 50GHz)	Operating relative humidity	
		1.4 max. (50 to 65GHz)		

Item	Specification	Conditions
1.Direct current resistance	50 ohms ± 4% max.	1V DC
2.Vibration	No damage, cracks, or parts dislocation.	Frequency 10 to 55 Hz, single amplitude of 1.5mm, 3 axis,
	no damage, cracks, or parts dislocation.	duration of 2 hours.
3.Shock	No damage, cracks, or parts dislocation.	Acceleration of 490m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis.
		Temperature: -55℃→15℃ to 25℃→125℃→15℃ to 25℃
4.Temperature cycle	No damage, cracks, or parts dislocation.	Duration (minutes): $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3
		100 cycles
5.High temperature exposure	No damage, cracks, or parts dislocation.	48 hours at 125℃
6.Low temperature exposure	No damage, cracks, or parts dislocation.	48 hours at -55℃
7.Corrosion resistance	No corrosion	5% salt water solution, 48 hours at 35℃

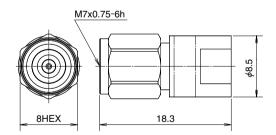
Materials and Finishes

Components	Material	Finish	
Shell	Stainless steel	Passivated	
Insulator	PTFE (Polytetrafluoroethylene)		
Male contact	Brass	Gold plated	
Coupling	Stainless steel	Passivated	
Attenuation element	Metal film		

Ordering information

HV-TM P		Series name	: HV Series	
0	2	8	2 TM	: Non-reflective terminator
			Connector type	P:Plug

Plug Type Terminator



Part number	CL No.
HV-TMP	CL 353-0146-6

Precautions

2 **HS**

The center pin contact has the diameter of 0.511 mm. Exercise due care when handling the terminator. When mating the terminator with the corresponding connector rotate the hex part only. Do not apply axial loads to the center contact or the terminator body.



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