

VERO PROBE

High Precision, Great Performance Probe Cable

Features

- Durability and Long Lifetime Usage
- Accurate and Precise Measurement
- Optimise Measurement Cost
- Measurements up to 67 GHz

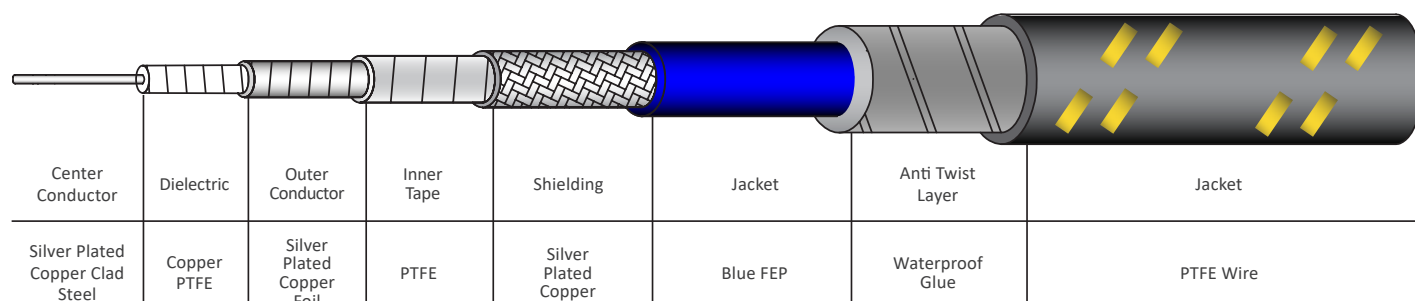
Typical Applications

- High Frequency Printed Circuit Board
- Automated Test Equipment (ATE)
- Semiconductor Test Equipment (IC tester)
- High Speed Digital Application
- RF Signal Measurements

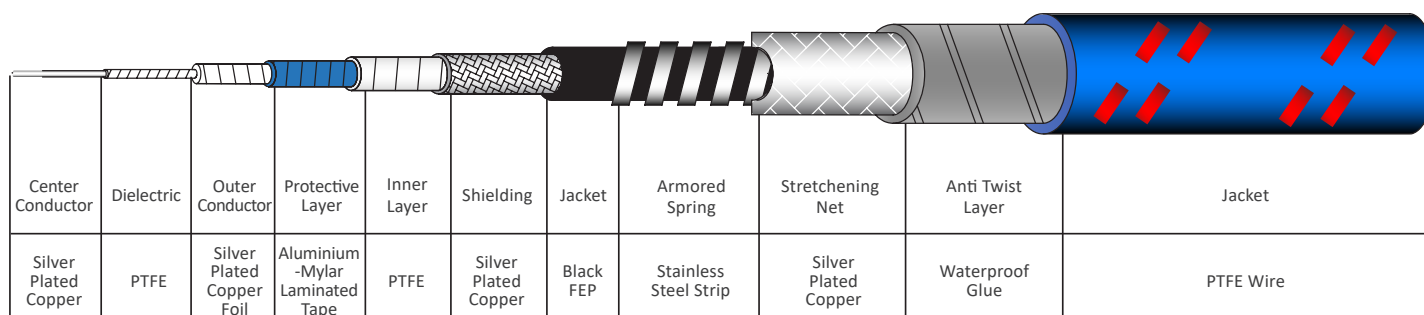


Cable Structure

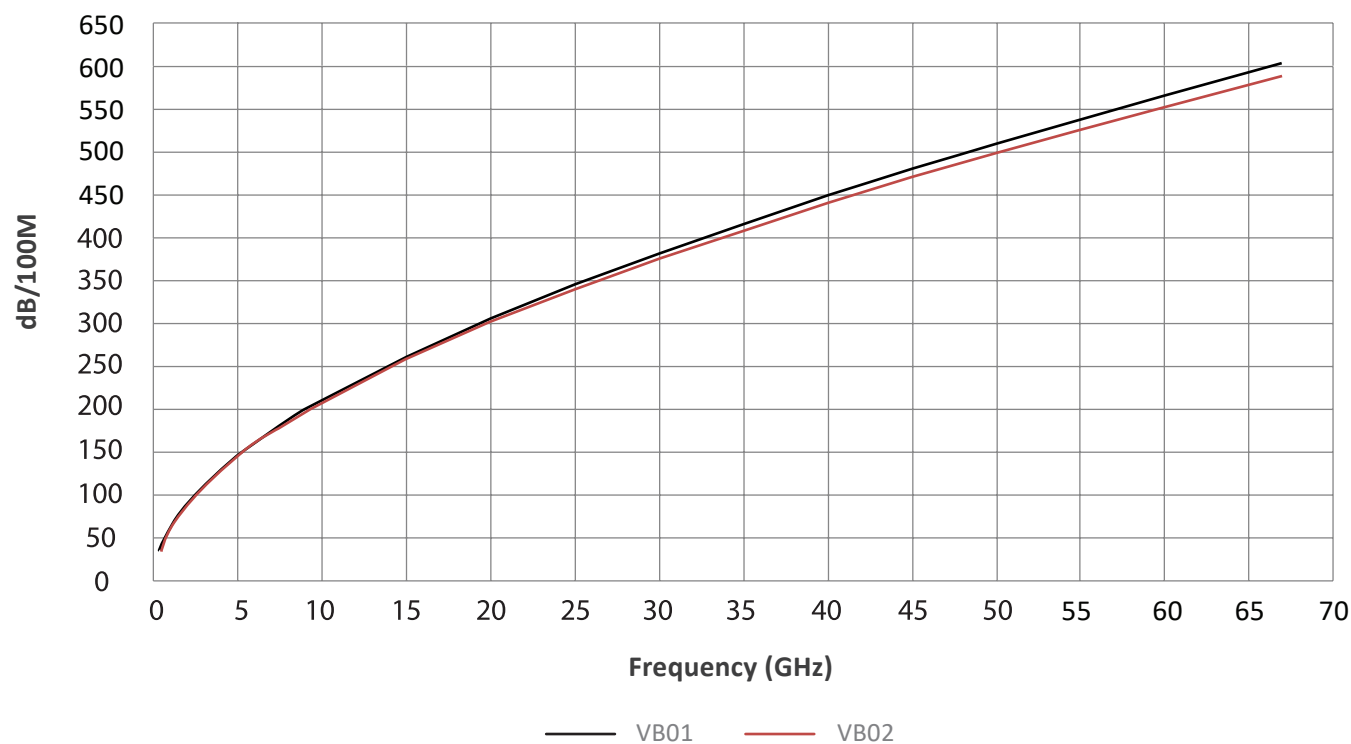
VEROPROBE I (no armor)



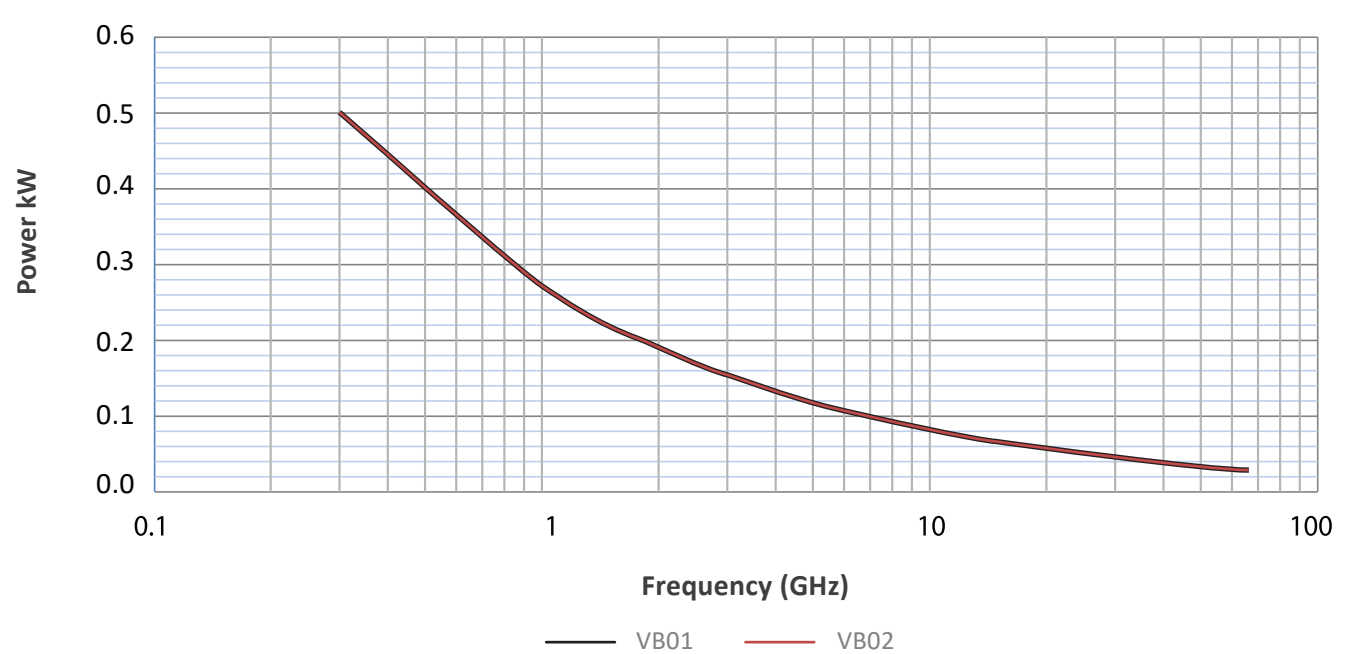
VEROPROBE II (with armor)



VEROPROBE Attenuation



VEROPROBE Average Power



VERO PROBE

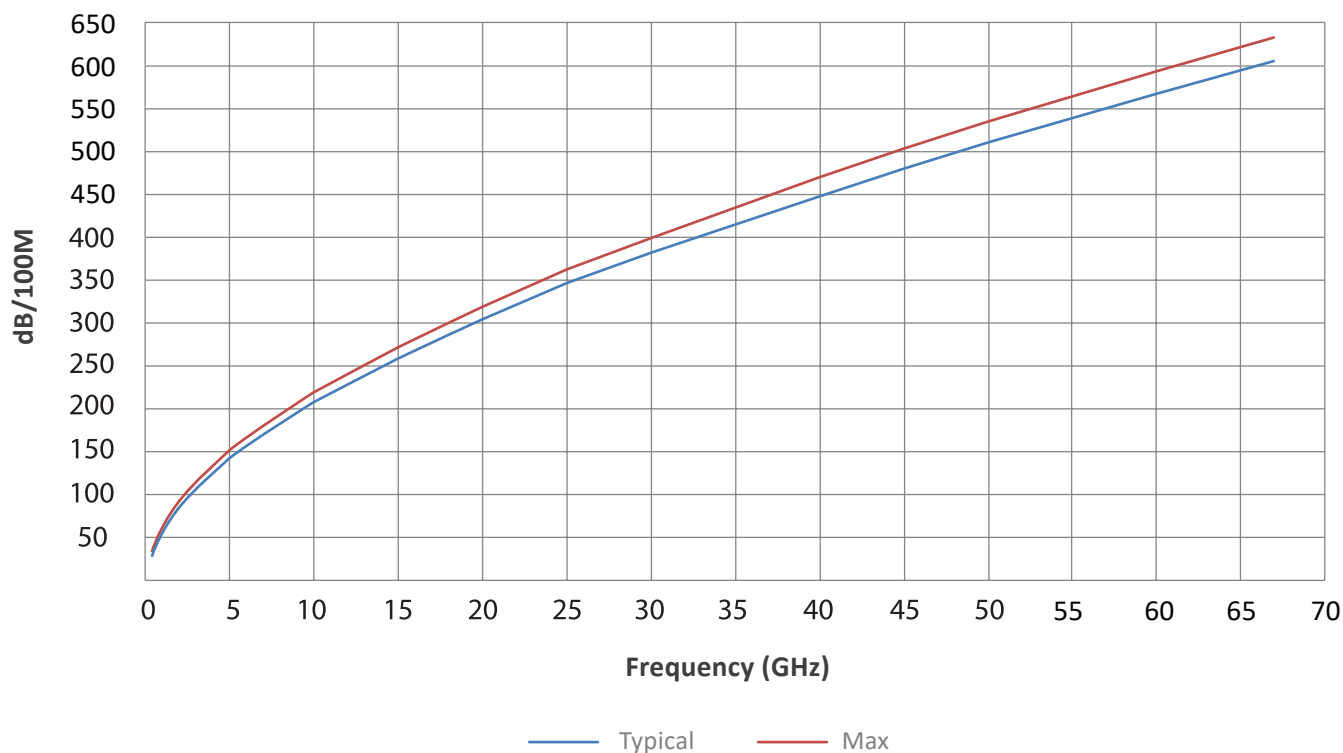


Specifications

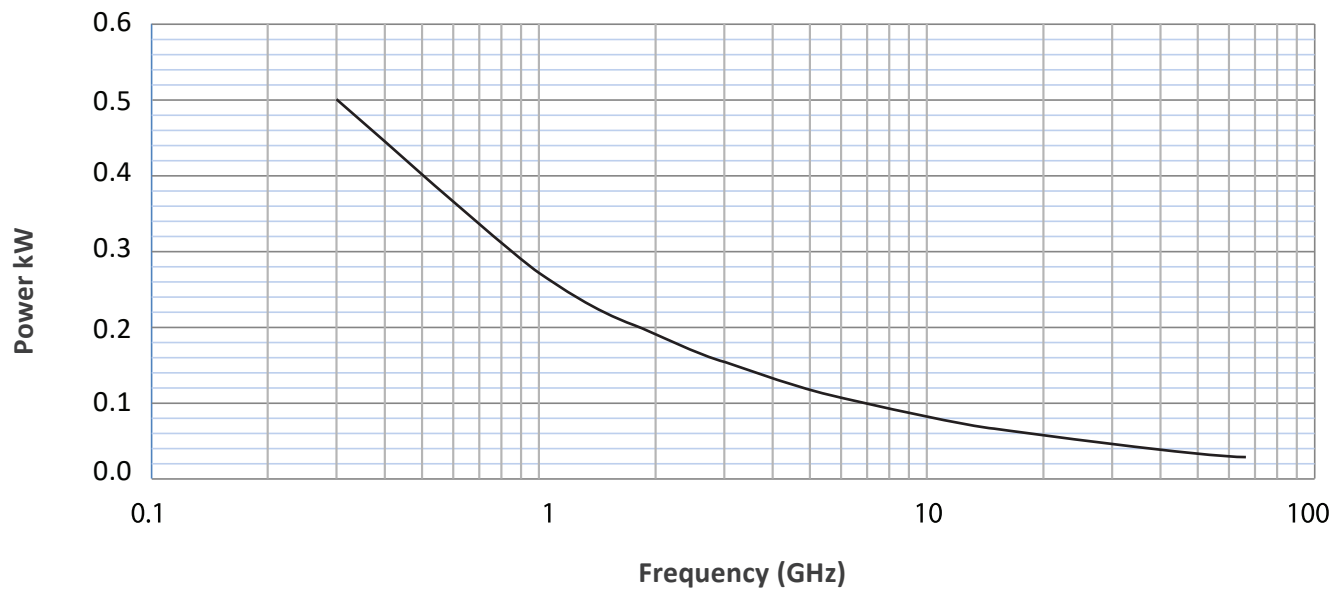
Cable	VB01		VB02	
Unit	mm	inch	mm	inch
Overall	3.15	0.124	4.65	0.183
Jacket	2.60	0.102	2.60	0.102
Min. Bend Radius	16.00	0.630	24.00	0.945
Bend Radius: Repeated	32.00	1.260	48.00	1.890
Temperature Range	-55/125°C	-67/257°F	-55/125°C	-67/257°F
Maximum Frequency (GHz)	67		67	
Typical VSWR	1.30		1.30	
Maximum VSWR	1.40		1.40	
Max. Insertion Loss (dB/m)	6.02		5.87	
Peak Power (kW)	3.60		3.60	
Typical Amplitude Stability (dB)	< ±0.07		< ±0.07	
Typical Phase Stability (Degree)	< ±6		< ±6	
Impedance (Ohms)	50		50	
Shielding Effectiveness (dB)	>90		>90	
Voltage Tolerance (DC)	500		500	
Velocity of Propagation	74%		74%	
Dielectric Constant	1.83		1.83	
Time Delay (Nominal) (ns/m)	4.5		4.5	
Capacitance (pF/ft)	90.2		90.2	
Weight (g/m)	20.0		61.0	
Compress Resistance	3.61kgf/cm	0.142lbs/ft	2.64kgf/cm	0.104lbs/ft

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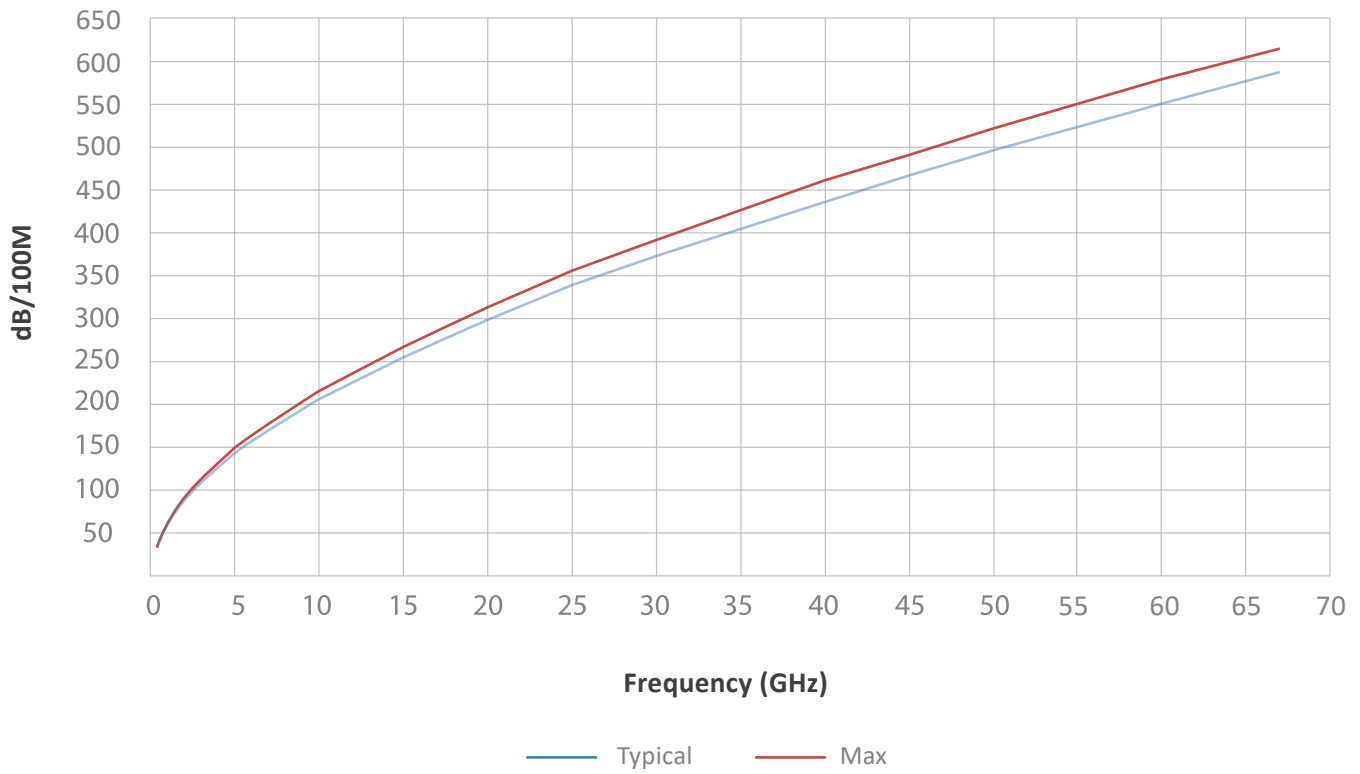
VB01 Attenuation



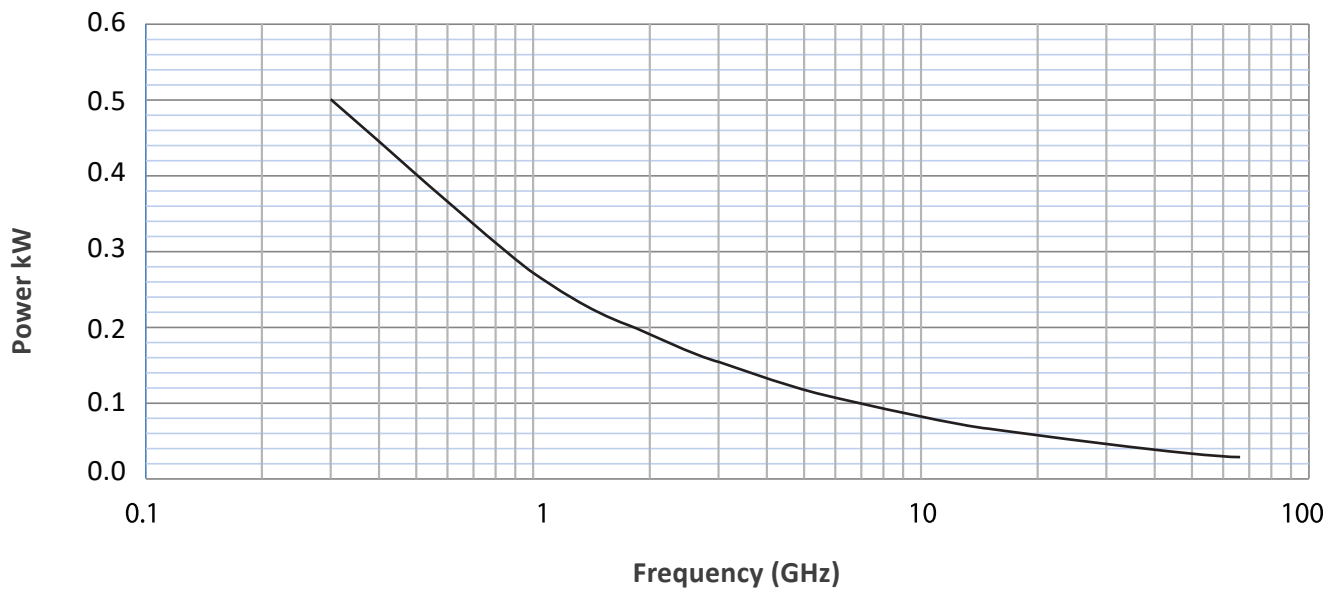
VB01 Average Power



VB02 Attenuation



VB02 Average Power



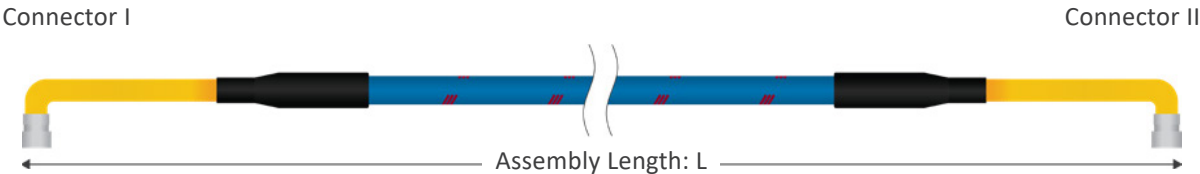
Attenuation (Typical @25°C & VSWR = 1:1)
& Power (VSWR = 1:1; 40°C; Sea Level)

Frequency (MHz)	VB01		VB02	
	Attenuation (dB/100m)	Average Power (kW)	Attenuation (dB/100m)	Average Power (kW)
300	34.21	0.500	34.20	0.500
1000	63.11	0.271	63.00	0.271
2000	90.11	0.190	89.81	0.190
4000	129.13	0.132	128.43	0.133
6000	159.75	0.107	158.64	0.108
10000	209.50	0.082	207.55	0.082
18000	287.72	0.059	284.03	0.060
26500	355.86	0.048	350.30	0.049
40000	448.00	0.038	439.44	0.039
50000	508.53	0.034	497.73	0.034
60000	564.65	0.030	551.61	0.031
67000	601.89	0.028	587.27	0.029

Calculate Attenuation = K1*VFMHz + K2*FMHz

	VB01	VB02
K1	1.9500000	1.9537172
K2	0.0014500	0.0012174

Selecting The Suitable Cable:
Part Number Construction



Cable Type-Length Conn (I)Conn (II) - A

VB02-01000 KMM KMM - A

1 2 3 4 5

1

Cable Type	Cable Code
VEROPROBE I	VB01
VEROPROBE II	VB02

2

Length Requirement	Length Code
1000mm	01000

3

Connector (I)	Connector Code
2.92mm (Male)	KMM

4

Connector (II)	Connector Code
2.92mm (Male)	KMM

5

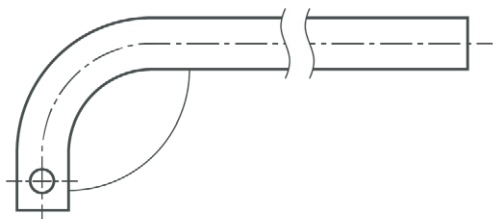
With Armor	No Armor
A	N

Criteria for Connector Selection

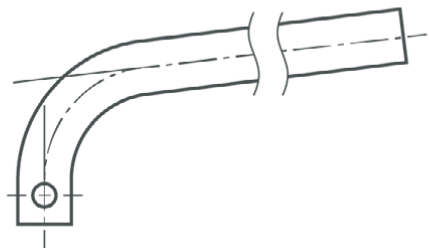
Connector Type	Mate	Connector Code			Max Operating Frequency (GHZ)	veroPROBE I	veroPROBE II	VSWR
2.92mm	M	K	M	M	40.0	●	●	1.25
2.92mm	M 90°	K	9	M	40.0	●	●	1.25
2.92mm	M 83°	K	8	M	40.0	●	●	1.25
2.92mm	F	K	M	F	40.0	●	●	1.25
2.4mm	M	L	M	M	50.0	●	●	1.30
2.4mm	M 90°	L	9	M	50.0	●	●	1.30
2.4mm	M 83°	L	8	M	50.0	●	●	1.30
2.4mm	F	L	M	F	50.0	●	●	1.30
1.85mm	M	V	M	M	67.0	●	●	1.35
1.85mm	M 90°	V	9	M	67.0	●	●	1.35
1.85mm	M 83°	V	8	M	67.0	●	●	1.35
1.85mm	F	V	M	F	67.0	●	●	1.35

Available Standard Ferrule

90°

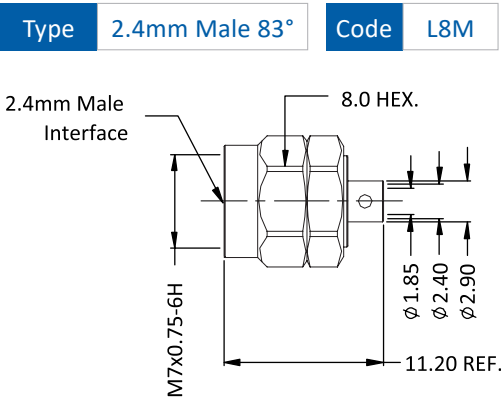
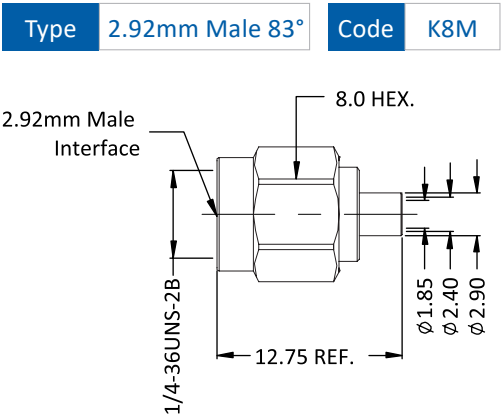
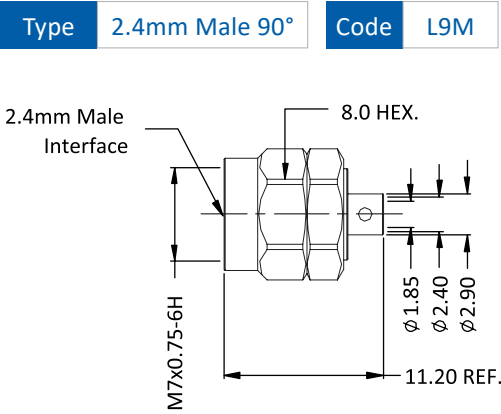
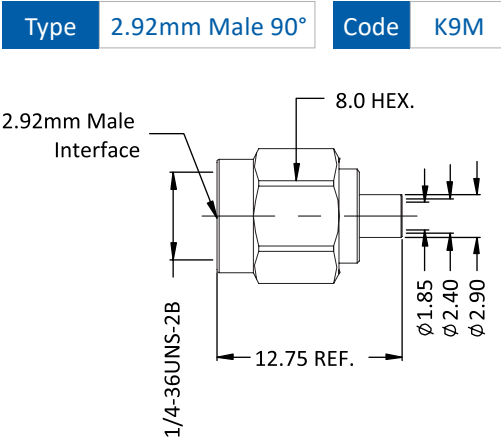
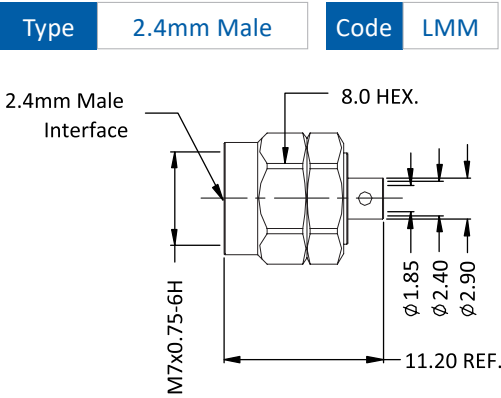
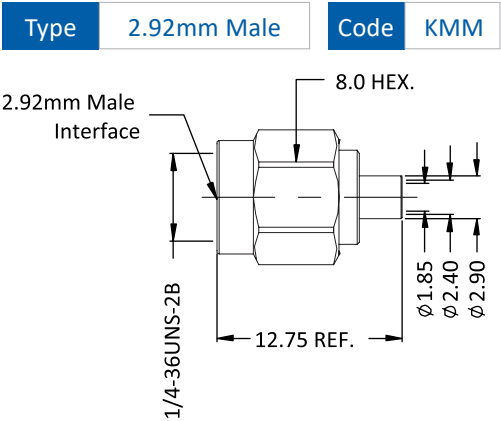


83°

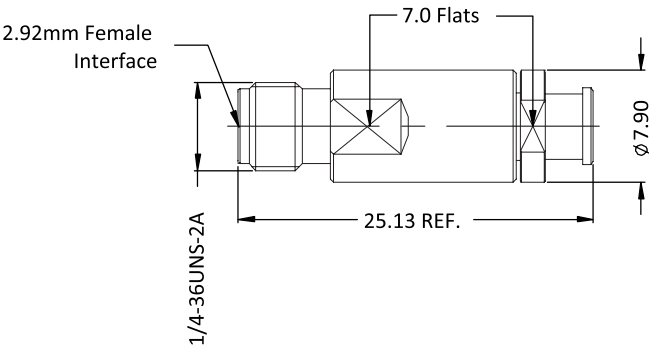


Available Standard Connectors

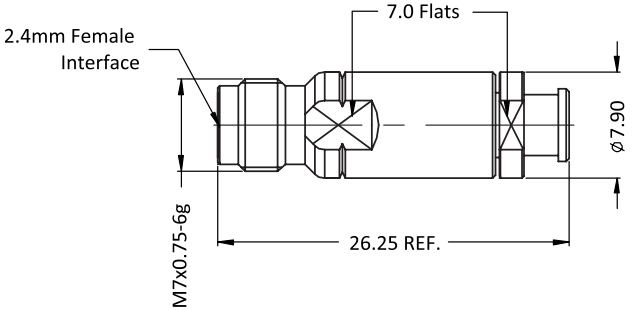
VB01



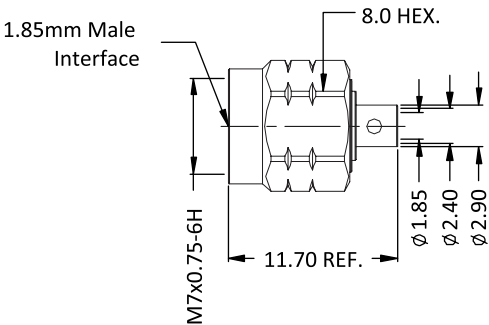
Type 2.92mm Female Code KMF



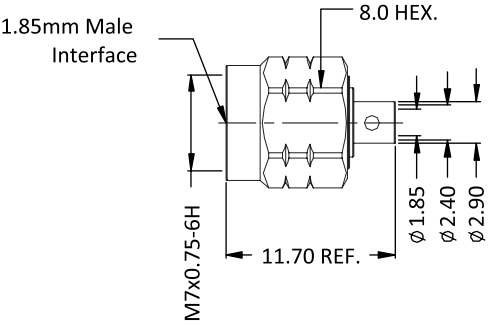
Type 2.4mm Female Code LMF



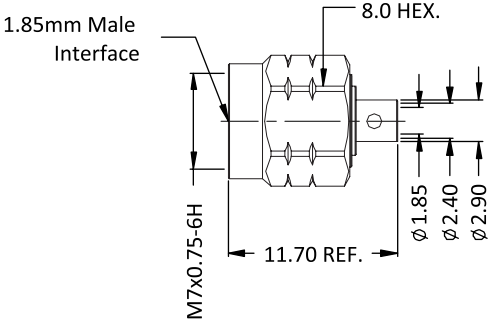
Type 1.85mm Male Code VMM



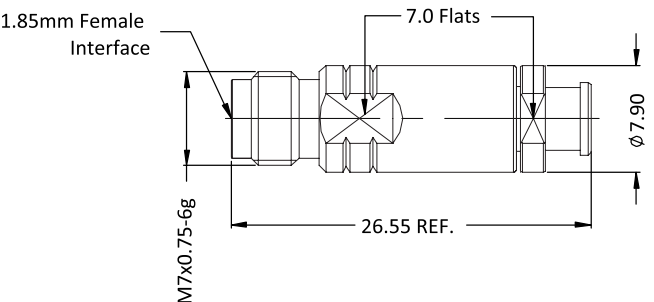
Type 1.85mm Male 83° Code V8M



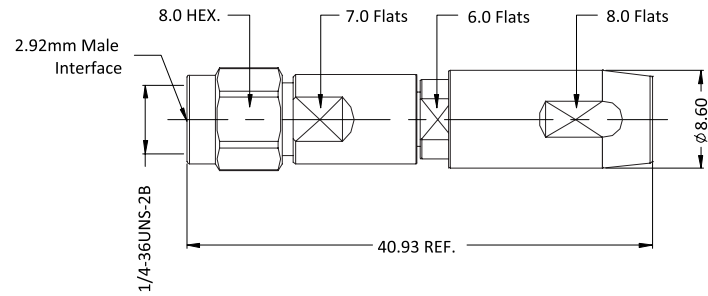
Type 1.85mm Male 90° Code V9M



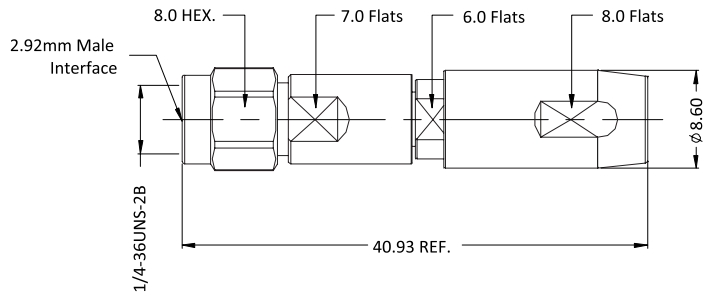
Type 1.85mm Female Code VMF



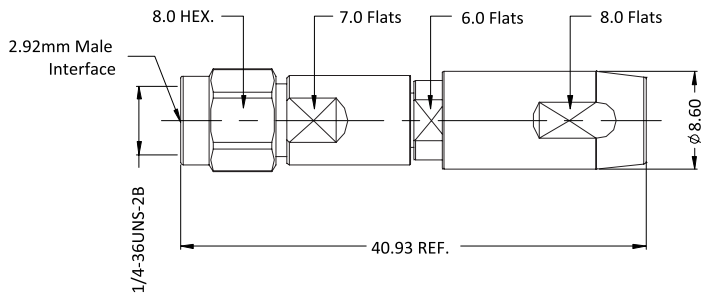
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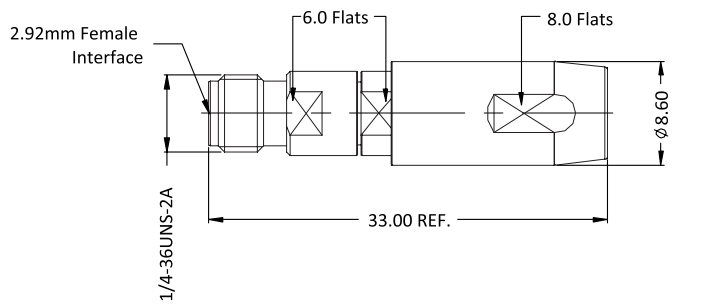
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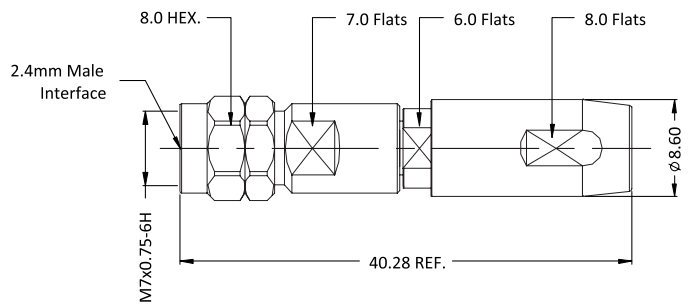
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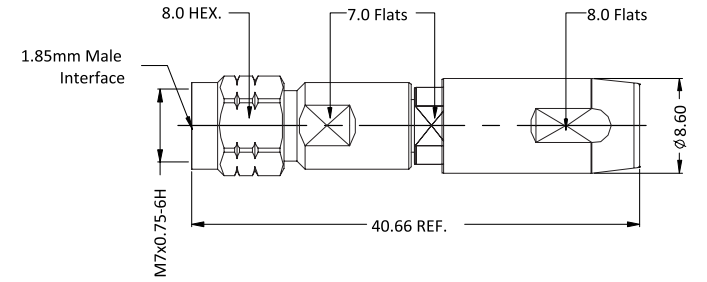
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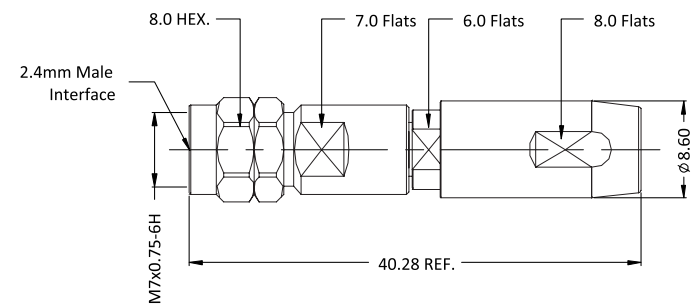
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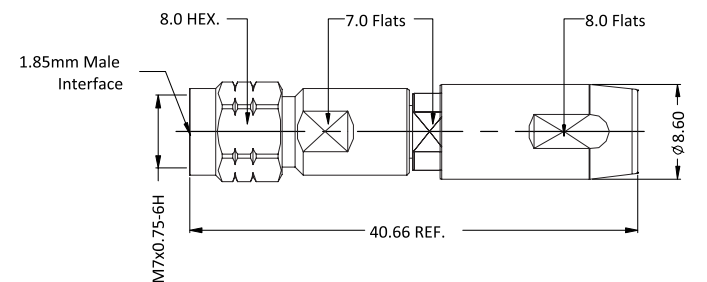
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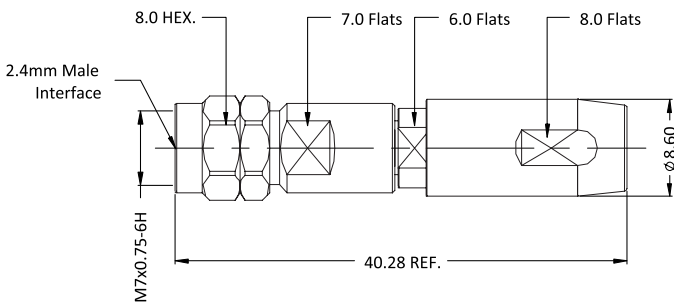
Type 2.4mm Male 90° Code L9M



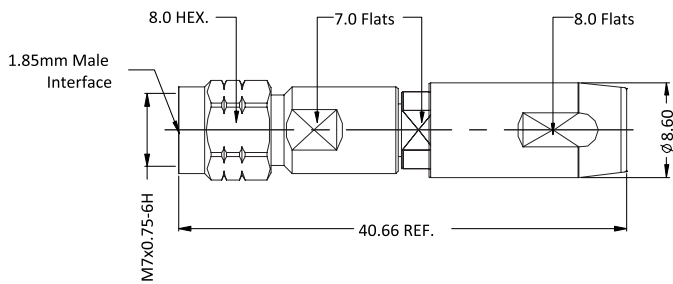
Type 1.85mm Male 90° Code V9M



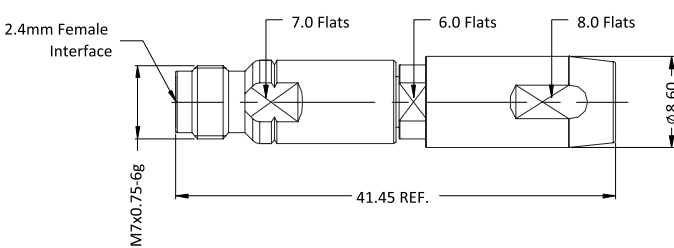
Type 2.4mm Male 83° Code L8M



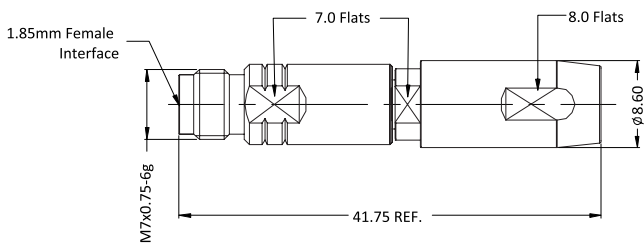
Type 1.85mm Male 83° Code V8M



Type 2.4mm Female Code LMF



Type 1.85mm Female Code VMF



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