

VCA-VJ31

Ultra Low Loss & Phase Stable

Features:

- * Low Insertion Loss
- * High Phase Stability
- * mmWave
- * High Frequency

Applications:

- * Phased-array Radar
- * Satellite Communication
- * Avionics



Electrical

Frequency:	DC~110GHz
VSWR:	1.5 max@110GHz
Impedance:	50Ω
Velocity of Propagation:	70%

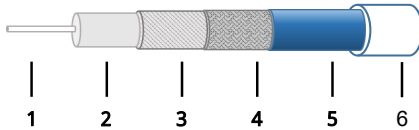
Mechanical

Static Bending Radius:	5.0mm
Dynamic Bending Radius:	10.0mm
Connector:	PC1.0 Straight (M)

Environmental

Temperature: -65~+165°C

Construction



No.	Name	Material
1	Center Conductor	Silver-plated copper
2	Dielectric	FEP
3	Inner Conductor	Helically overlapped flat silver-plated copper
4	Outer Conductor	Silver-plated copper braid
5	Jacket	FEP
6	Jacket	Flexible silicon tube

Attenuation & Power Handling

Frequency (GHz)	4	8	12	18
Attenuation(dB/m)	2.63	3.94	4.60	5.90
Average Power(W)	20	13	10	8

How To Order

VCA-X-VJ31-Y-Z

X: Connector type

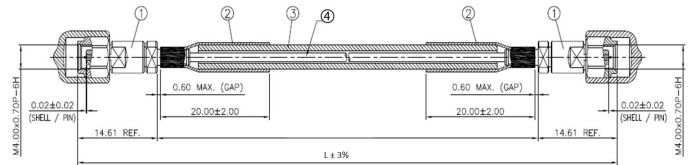
Y: Frequency in GHz

Z: Length in meters

Flexible RF Cables & Assemblies



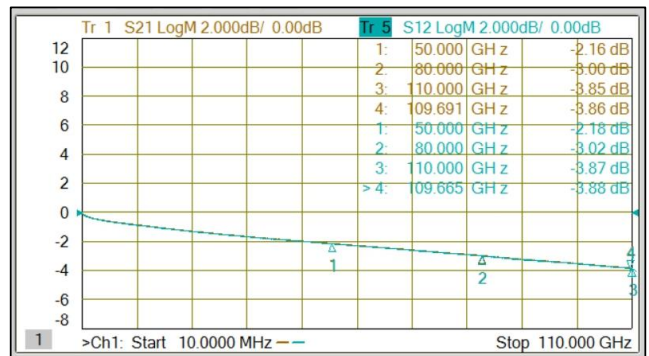
Outline Drawing



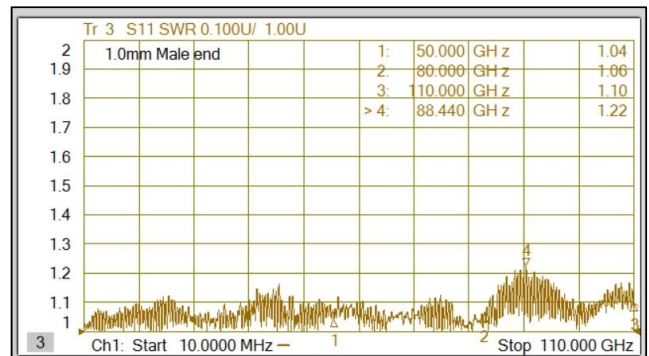
Units: mm, unless indicated otherwise

Testing Report

Typical Performance Cable length: 8 in



Insertion Loss



VSWR