



201-D North 1st Street
Stroudsburg, PA 18360-2518
USA

www.megaphase.com
Email: sales@megaphase.com

Phone: 1-877-MegaPhase
570-424-8400

Fax: 1-877-MegaFax
570-424-6031

T-Vac Series – Thermal-Vacuum Test Cables

Frequency		Part Number	Attenuation		Connector Loss* dB	SWR
GHz	Band		dB/ft	dB/m		
0.5	UHF	TV4	0.08	0.27	0.02	1.04:1
0.9			0.11	0.36	0.02	1.05:1
1.0			0.12	0.39	0.02	
1.9	L		0.17	0.56	0.03	
2.0	S		0.17	0.57	0.03	1.10:1
3.0			0.22	0.73	0.04	
4.0	C	0.26	0.86	0.04	1.15:1	
6.0		0.34	1.12	0.06		
8.0	X	TV8	0.40	1.31	0.07	1.20:1
10.0			0.46	1.50	0.08	1.25:1
12.4	Ku	TV18	0.53	1.74	0.08	
14.0			0.58	1.89	0.09	
18.0			0.69	2.26	0.11	1.30:1
20.0	K	TV26	0.74	2.44	0.12	
22.0			0.79	2.61	0.13	
26.5	Ka	TV40	0.91	2.99	0.15	1.35:1
28.0			0.95	3.11	0.16	
30.0			1.00	3.27	0.17	1.40
32.0			1.05	3.43	0.18	
38.0			1.19	3.90	0.22	1.45:1
40.0	mm	TV50	1.24	4.06	0.25	
50.0			1.47	4.82	0.32	1.50:1

*Insertion Loss & SWR increases w/ non-precision or angle connector types & varies based on connector combination.

Electrical Data	
Maximum Frequency	50 GHz
Impedance	50 Ω nominal
Velocity of Prop.	69% nominal
Time Delay	1.47 Ns/ft (4.82 Ns/m)
Capacitance	29.0 pF/ft (95.1 pF/m)

Mechanical Data	
Jacketed O.D.	0.285 inches (7.24mm)
Jacket Type *	Viton (Low Outgassing)
Second Layer	Metallic Braid
Min. Bend Radius	0.5 inches (12.7mm)
Temperature Range	-100 to 390°F (-75 to +200°C)
Weight	0.045 lbs/ft (0.067 kg/m)
Outer Conductor	Cu GrooveTube®
Dielectric	PTFE
Inner Conductor	Ag-plated Cu

*Other jacket types available upon request. See Ordering Information.

These super-flexible test cables are made with our industry-leading **GrooveTube® Technology** outer conductor, recognized for superior phase and amplitude performance under flexure. Only low outgassing materials are used (NASA RP 1124) and connectors are vented for vacuum compatibility. Cables are thermal-cycled prior to shipment.

When requesting a quotation, please specify.

- Cable Length
- Connectors
- Frequency Range(s)
- Temperature Range
- CW Power
- Vacuum Level
- Other Critical Performance Criteria



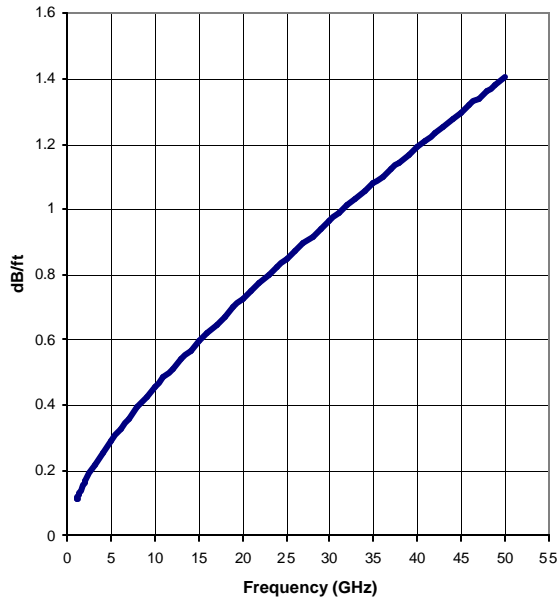
201-D North 1st Street
 Stroudsburg, PA 18360-2518
 USA

www.megaphase.com
 Email: sales@megaphase.com

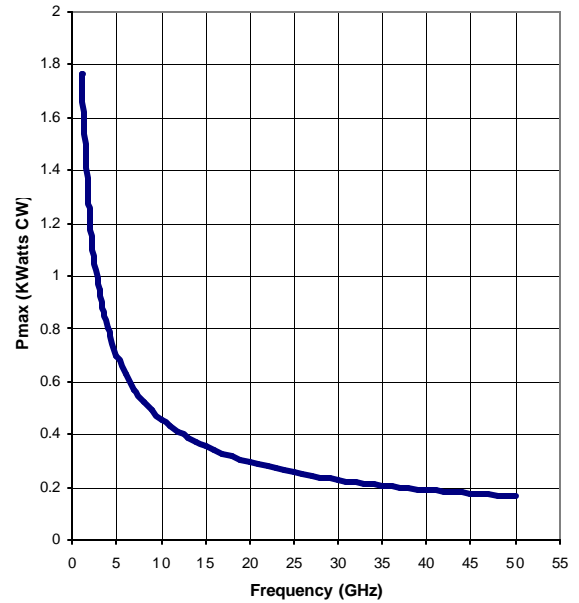
Phone: 1-877-MegaPhase
 570-424-8400

Fax: 1-877-MegaFax
 570-424-6031

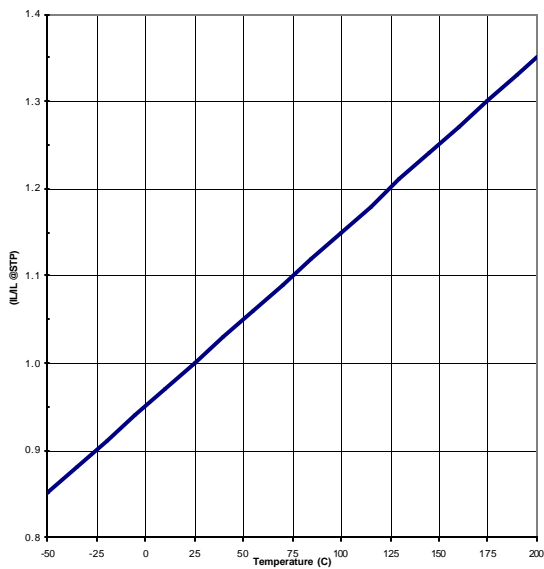
Cable Attenuation @STP



Cable CW Power Handling @STP



Attenuation Derating Curve



Power Derating Curves

