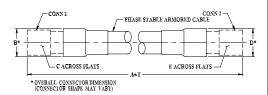


1M DC to 40 GHz Phase Stable

Maximum Ratings

maximum mating	9		
Operating Temperature	-5	5°C	to +85°C
Storage Temperature	erature -55°C to +85°C		
Power Handling at 25°C,	39W	at	2 GHz
Sea Level	10W	at	18 GHz
	6W	at 2	26.5 GHz
	3.5W	at	40 GHz
Coupling Nut Torque		1	I.09 N·M
Permanent damage may occur if any of these limits are exceed			

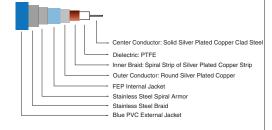
Outline Drawing



Outline Dimensions (inch)

	A	В	С	D	E		T	wt
Feet	Meters	.36	.312	.36	.312	Inch	mm	grams
3.28	1.00	9.14	7.92	9.14	7.92	+.79/-0	+20.0/-0	97

Cable Construction



Product Guarantee

Mini-Circuits® will repair or replace your test cable at its option if the connector attachment fails within \underline{six} months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.

Features

- outstanding phase stability
- · extra rugged construction includes protective shield and strain relief for longer life
- stainless steel 40 GHz connector for long mating-cycle life
- double shield cable for excellent shielding effectiveness
- 40 GHz connector mates with 2.92 mm, K*, 3.5mm, SMA

Applications

- · military and defense applications
- research & development labs

KBL-1M-PHS+



CASE STYLE: MB1629-3.28

Connectors	Model
2.92mm Male	KBL-1M-PHS+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

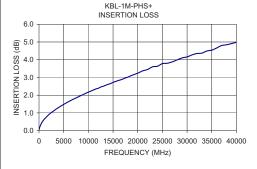
Electrical Specifications at 25°C

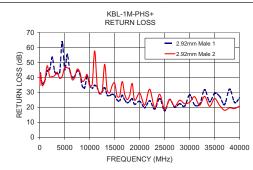
Parameter	Condition (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC		40	GHz
Length			1		М
	DC - 6	_	1.93	2.15	dB
Insertion Loss	6 - 18	_	3.53	4.1	
Insertion Loss	18 - 26.5	_	4.41	5.1	
	26.5 - 40	_	5.65	6.4	
	DC - 6	17	30	_	dB
Deturn Loop	6 - 18	17	21	_	
Return Loss	18 - 26.5	14	19	_	
	26.5 - 40	14	17	_	
	DC - 6	_	0.5	_	Degree
Phase Change with Flowers**	6 - 18	_	1.0	_	
Phase Change with Flexure**	18 - 26.5	_	2.0	-	
	26.5 - 40	_	3.0	_	

^{*}K Connector is a trademark of Anritsu

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)		
		MALE 1	MALE 2		
50.0	0.07	35.0	34.7		
2000.0	0.91	45.5	40.5		
4000.0	1.31	43.4	39.4		
6000.0	1.64	44.7	45.4		
10000.0	2.17	34.8	34.1		
15000.0	2.72	27.9	36.3		
18000.0	3.02	24.1	27.9		
20000.0	3.24	24.1	29.5		
26000.0	3.80	25.3	25.2		
28000.0	3.99	22.4	24.7		
30000.0	4.16	28.3	23.5		
32000.0	4.35	22.0	21.3		
36000.0	4.66	27.4	21.3		
38000.0	4.84	32.3	19.6		
40000.0	4.98	26.4	20.8		





- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

^{**}Phase change versus flexure with cable 360° about a 3 inch mandrel