

AN14167A/B/C

7.5GHz Low Reflection Bessel Filter

Features

- Low reflection
- Low group delay deviation

Applications

- Optical networks
- Measuring instruments



Absolute Maximum Ratings

Items	Ratings
Maximum power	17dBm
Operating temperature	5°C - 60°C

Specifications

Ta=25°C, Zin=50 ohms, Zout=50 ohms

Items	Conditions	Units	Specifications		
			min.	typ.	max.
Cutoff frequency f_0		GHz		7.5	
Bit rate		Gbit/s		10	
Return loss	DC – f_0	dB	15		
	< $3f_0$	dB	8		
Insertion loss	100MHz	dB		0.5	1.0
Insertion Loss* ¹	0.2 f_0	dB	-0.4	0.1	0.6
	0.4 f_0	dB	-0.1	0.4	0.9
	0.6 f_0	dB	0.5	1.0	1.5
	0.8 f_0	dB	1.4	1.9	2.4
	1.0 f_0	dB	2.5	3.0	3.5
	1.2 f_0	dB	3.34	4.5	5.66
	1.33 f_0	dB	4.16	5.7	7.24
	1.4 f_0	dB	4.69	6.4	8.11
	1.6 f_0	dB	6.3	8.5	10.7
	1.8 f_0	dB	8.28	10.9	13.52
	2.0 f_0	dB	10.4	13.4	16.4
Group Delay	DC - f_0	mUI* ²			Δ100

*1 Reference insertion loss: 100MHz

*2 UI's reference frequency: Bit rate

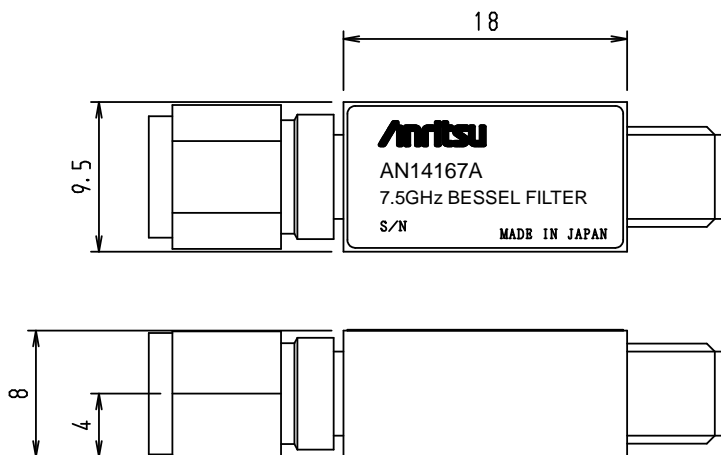
Model Number

AN14167□
 Connector type

Example : AN14167A

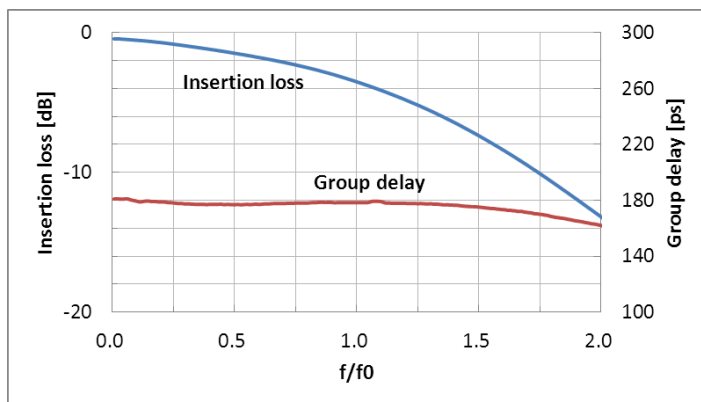
Connector Type	In/Out
A	M-F
B	F-F
C	M-M

Dimensions

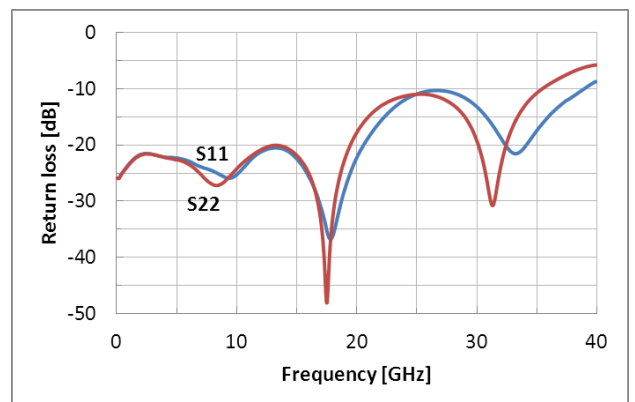


Connectors: K

Typical Data



Transmission characteristic



Reflection characteristics

Please consult Anritsu Corporation If the products are used in the high reliability system.
 Specifications are subject to change without notice.