

AN14145 series 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

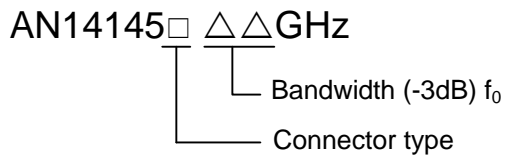
Ta=25°C, Zin=50 ohms, Zout=50 ohms

Items	Conditions	Units	Specifications		
			min.	typ.	max.
Return loss	DC – f ₀	dB	15		
	< 3f ₀	dB	8		
Insertion loss f ₀ : 1.6GHz	100MHz	dB		1.0	1.5
Insertion loss f ₀ : 3.2GHz	100MHz	dB		0.7	1.2
Insertion loss f ₀ : 7.5GHz	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
Group Delay	DC - f ₀	mUI*2			Δ100

*1 Reference insertion loss: 100MHz

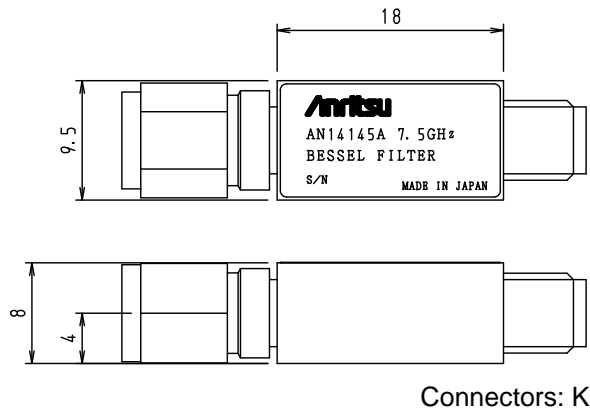
*2 UI's reference frequency: Bit rate

Model Number



Example : AN14145A 7.5GHz

Dimensions



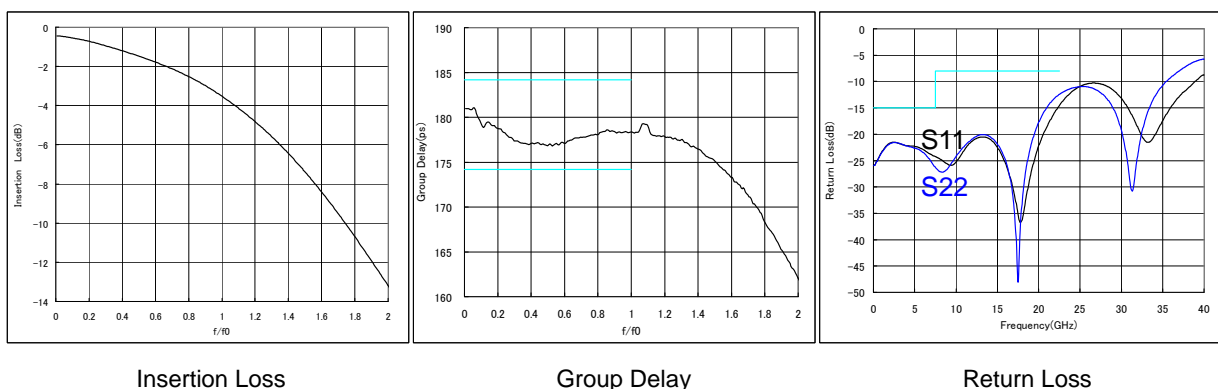
Connector Type	In/Out
A	M-F
B	F-F
C	M-M

Filter Rate

Bandwidth (-3dB) f_0	Bit Rate
1.6GHz	2.125Gbit/s
3.2GHz	4.25Gbit/s
7.5GHz	10Gbit/s

Typical Data

f_0 : 7.5GHz



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