

AN44146 series Low Reflection Bessel Filter

Features

- High cutoff frequency up to 40GHz
- Low reflection
- Low group delay deviation



Application

- Optical networks
- Measuring instruments

Absolute Maximum Ratings

Items	Ratings
Maximum power	20dBm
Operating temperature	5°C - 60°C

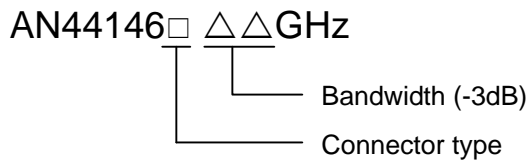
Specifications

Ta=25°C, Zin=50 ohms, Zout=50 ohms

Items	Conditions	Units	Specifications		
			min.	typ.	max.
Cutoff frequency f_0	-3dB	GHz	30, 35, 40		
Return loss	DC – f_0	dB	10	15	
	< 65GHz		5	10	
Insertion loss 1	@100MHz	dB		0.20	0.70
Insertion loss 2	0.2 f_0	dB	-0.60	0.10	0.80
	0.4 f_0		-0.20	0.50	1.20
	0.6 f_0		0.30	1.00	1.70
	0.8 f_0		1.20	1.90	2.60
	1.0 f_0		2.30	3.00	3.70
	1.2 f_0		3.40	4.50	5.70
	1.3 f_0		4.30	5.70	7.10
	1.4 f_0		4.90	6.40	7.90
	1.6 f_0		6.70	8.60	10.50
	(1.8 f_0)		8.80	10.90	13.00
	(2.0 f_0)		11.00	13.40	15.80
Group delay *1	DC – f_0	mUI			Δ300

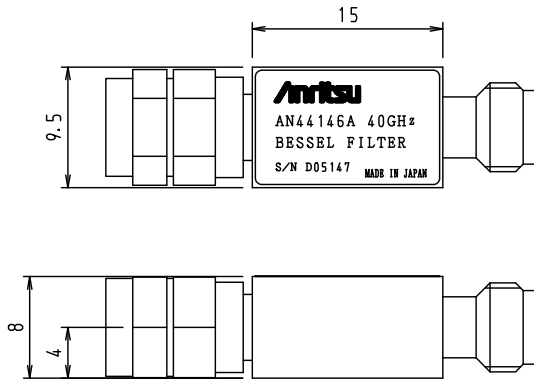
*1 UI's reference frequency: 1.3 f_0

Model Number



Example : AN44146A 40GHz

Dimensions

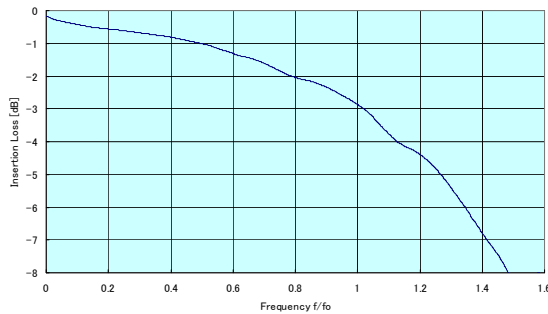


Connectors: V

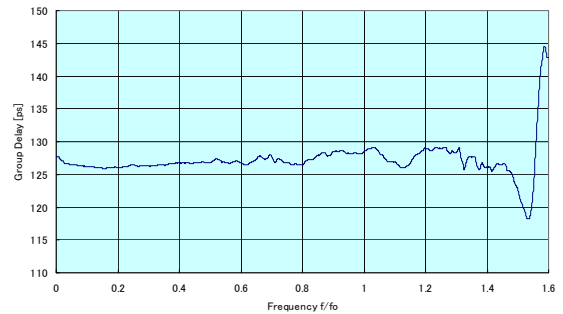
Connector type	In / Out
A	M-F
B	F-F
C	M-M

Typical Data

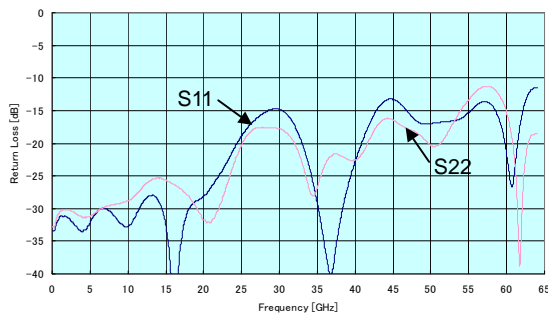
$f_0=40\text{GHz}$



Insertion loss



Group delay



Return loss

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