

## AN44170A/B/C

### 40GHz Low Reflection Bessel Filter

#### Features

- High cutoff frequency
- 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	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 $f_0$

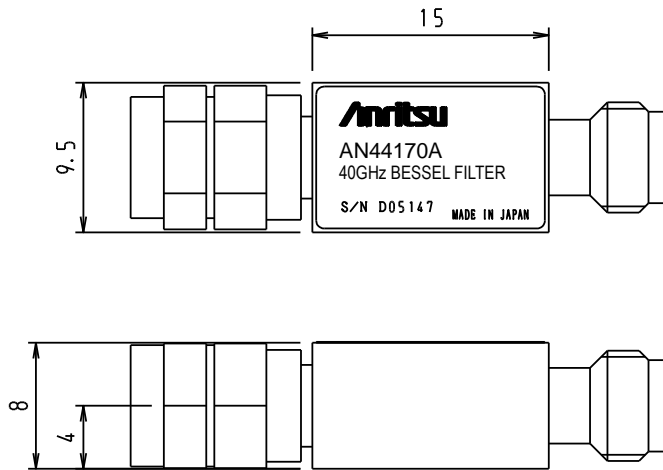
## Model Number

AN44170□  
 Connector type

Example : AN44170A

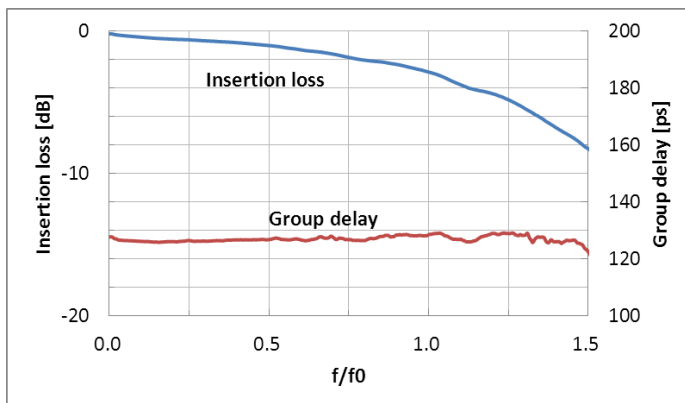
Connector type	In / Out
A	M-F
B	F-F
C	M-M

## Dimensions

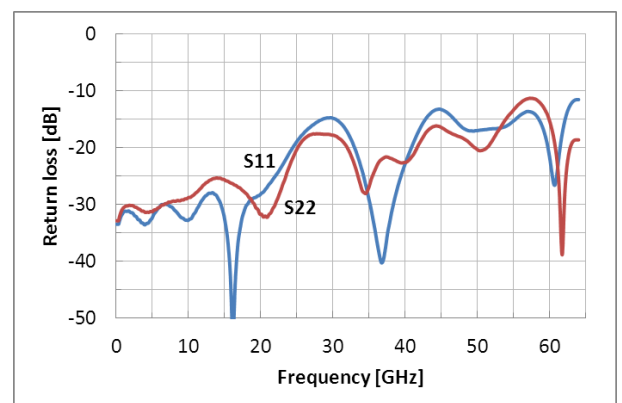


Connectors: V

## 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.