

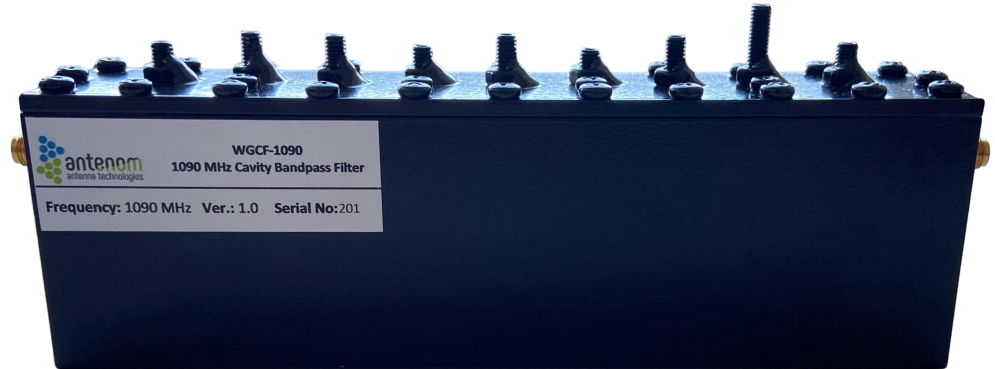
## WGCF-1090 Bandpass Cavity Filter

### Features

- Low insertion loss
- High rejection
- Connectorized package
- Narrow Bandwidth

### Applications

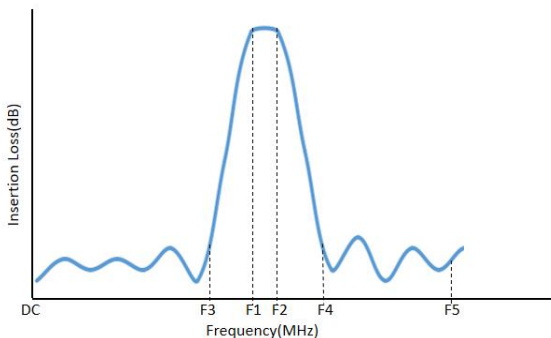
- ADS-B systems
- Traffic Alert and Collision Avoidance Systems (TCAS)



### Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min	Typ.	Max	Unit
Pass Band	Center Frequency	Fc	1090	-	1090	-	MHz
	Insertion Loss	F1-F2	1086-1094	-	1.6	2	dB
	VSWR	F1-F2	1086-1094	-	1.4	1.8	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-1060	75	90	-	dB
	VSWR	DC-F3	DC-1060	-	20 or higher	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	1115-3000	75	90	-	dB
	VSWR	F4-F5	1115-3000	-	20 or higher	-	:1

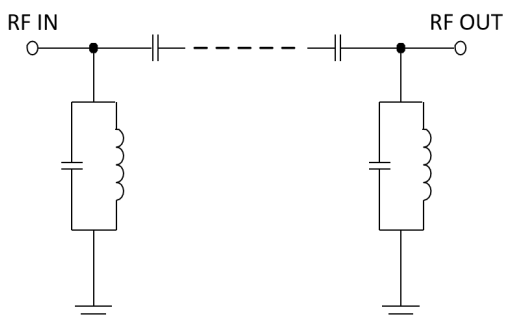
### Typical Frequency Response



### Typical Performance Data at 25°C

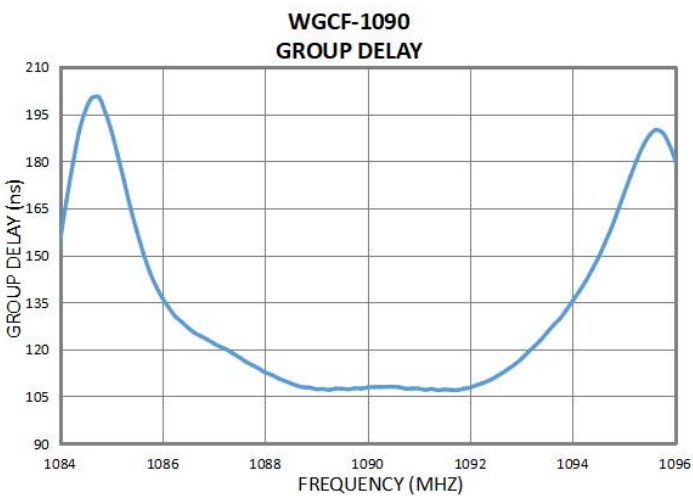
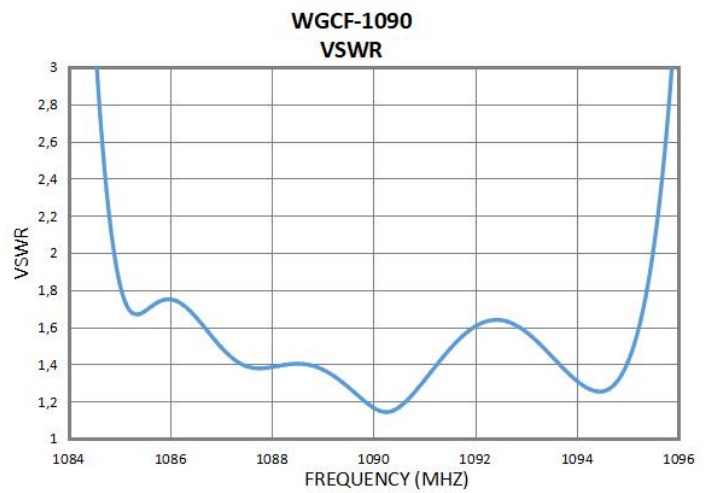
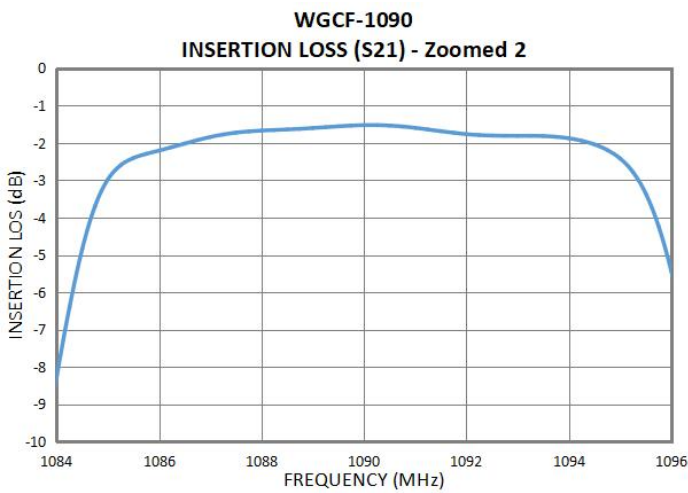
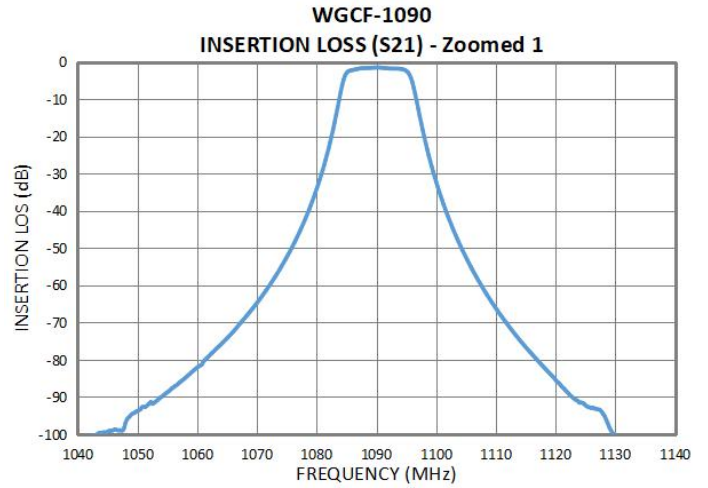
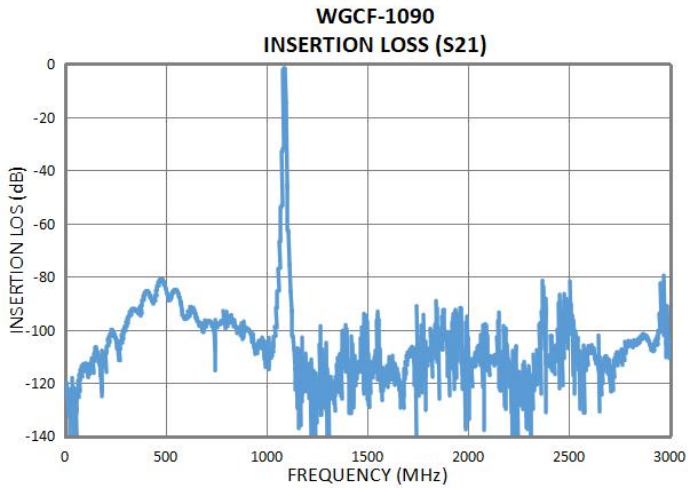
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	119,85	1442,71
100	114,08	985,52
300	99,07	856,14
500	84,06	380,02
1040	103,24	615,89
1060	82,06	115,62
1080	34,10	85,89
1084,5	4,83	3,25
1090	1,52	1,16
1095,5	3,34	2,01
1100	32,20	48,63
1110	66,16	254,84
1140	109,12	516,06
1200	112,94	750,47
1800	110,71	615,94
2400	110,56	528,98
3000	104,21	746,24

### Functional Schematic



## WGCF-1090 Bandpass Cavity Filter

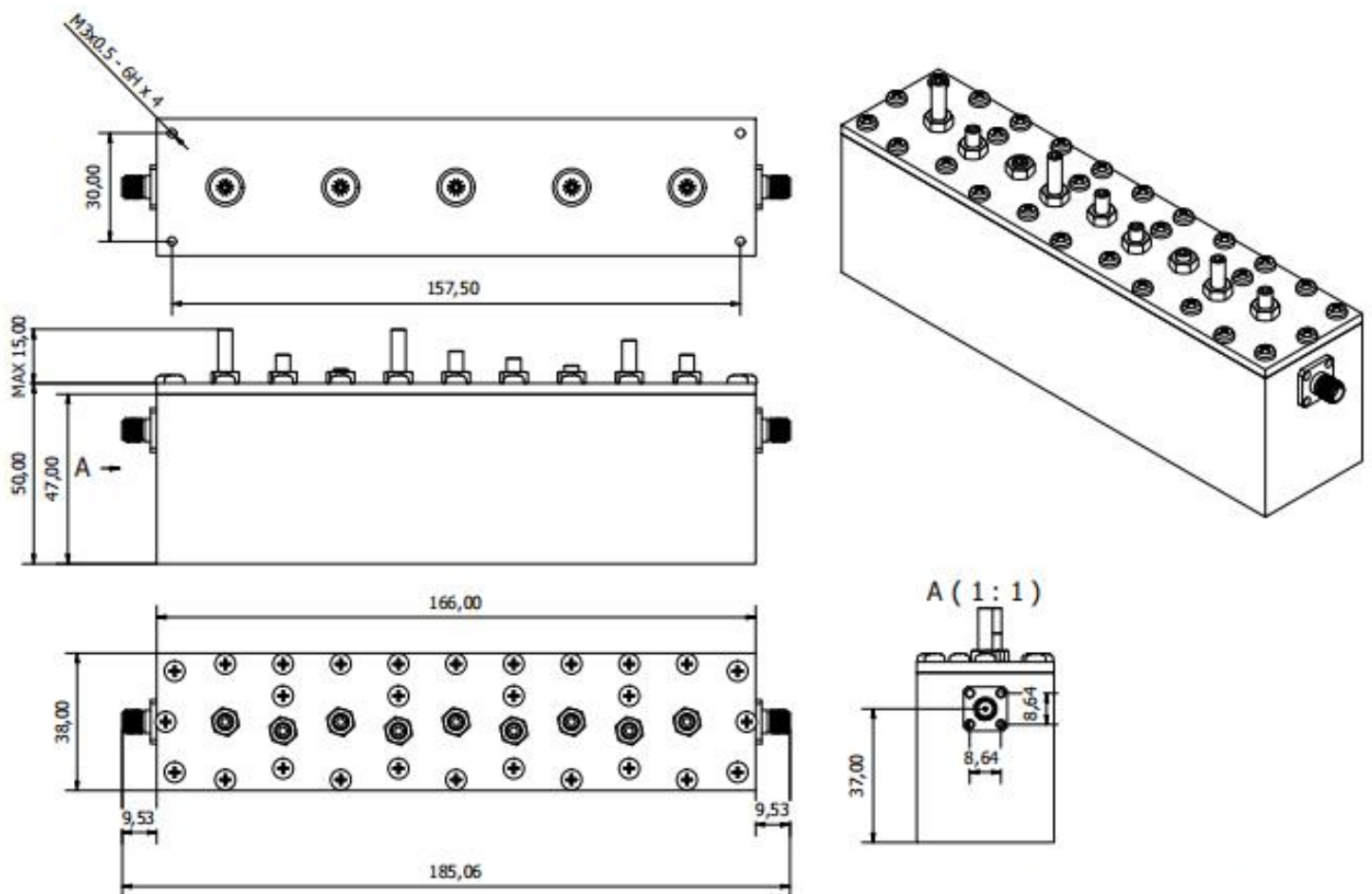
### Typical Performance Graphs



**Coaxial Connections**

PORT-1	SMA Female
PORT-2	SMA Female

**Outline Drawing**



Dimensions are in mm.

Unit Weight: 510 grams