

# Low Pass Filter

## VLF-5850+

50Ω DC to 5850 MHz

### Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input\* 8W at 25°C

DC Current Input to Output 0.5A max. at 25°C

\*Passband rating, derate linearly to 3 W at 100°C ambient  
Permanent damage may occur if any of these limits are exceeded.

### Features

- Rugged uni-body construction, small size
- 7 sections
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US patent 6,943,646

### Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use



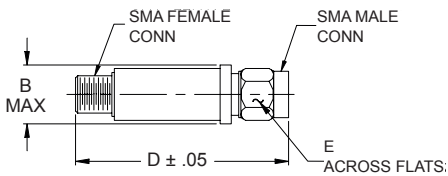
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-5850+	\$ 21.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Outline Drawing



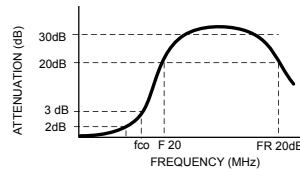
### Outline Dimensions (inch mm)

B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

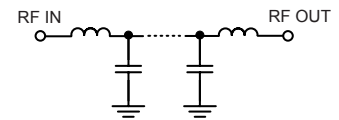
### Low Pass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

PASSBAND (MHz) (loss < 2 dB) Max.	f <sub>co</sub> , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
DC - 5850	6540	7600	7100 - 9900	12500	17	1.3	7

### Typical frequency response



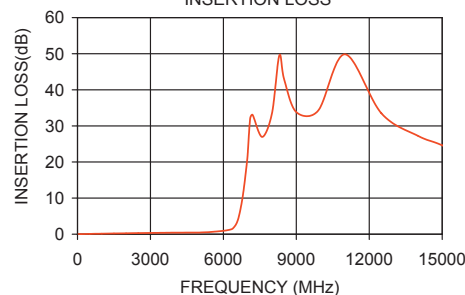
### Electrical schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.06	1.04
500	0.09	1.05
2000	0.25	1.24
4000	0.43	1.32
5100	0.48	1.06
5850	0.83	1.37
6400	1.67	1.38
6540	3.00	2.15
6700	6.81	4.59
6850	13.06	8.95
7050	26.69	15.00
7100	32.06	15.96
7600	26.94	23.49
9900	34.23	33.42
10500	39.05	41.37
12500	33.49	51.10
15000	24.64	48.26

VLF-5850+  
INSERTION LOSS



VLF-5850+  
VSWR

