Coaxial

Low Pass Filter

VLF-5850+

50Ω *DC to 5850 MHz



CASE STYLE: FF704

Connectors	Model
SMA	VLF-5850+

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

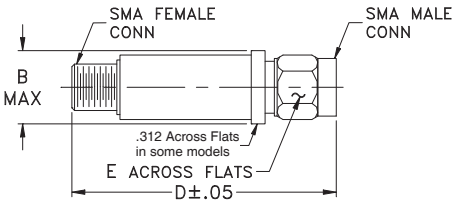
- Rugged uni-body construction, small size
- 7 sections
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US patent 6,943,646

Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



Outline Dimensions (inch / mm)

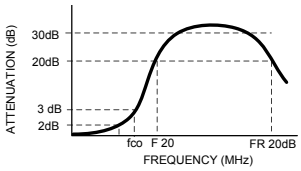
B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Low Pass Filter Electrical Specifications (T_{AMB}= 25°C)

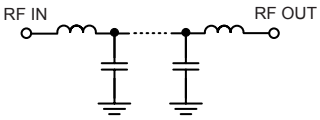
PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
(loss < 2 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC - 5850	6540	7600	7100 - 9900	12500	17	1.3	7

** Not for use with DC voitage at input and output ports*

Typical frequency response



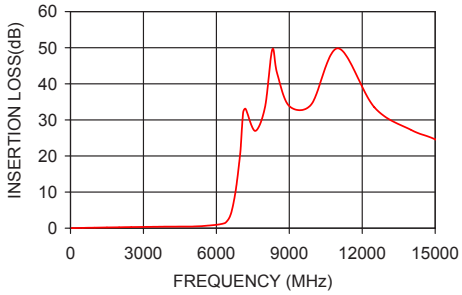
Electrical schematic



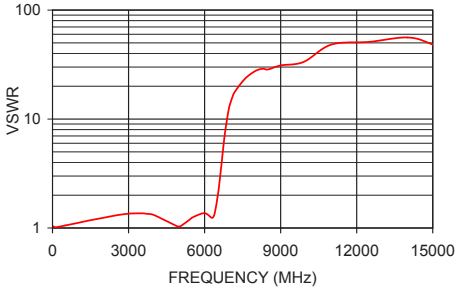
Typical Performance Data at 25°C

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



Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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