Coaxial .ow Pass Filter

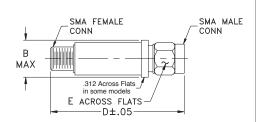
DC to 180 MHz 50Ω

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.





Outline Dimensions (inch)

В	D	Е	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

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

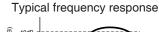
Connectors	Model
SMA	VLF-180+
SMA	VLF-180

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

- 25°C)

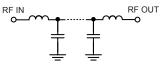
	W Fass Filler	LICCUI	cal Speci	incation		23 0)	
PASSBAND (MHz)	fco, MHz Nom.	ST	OP BAND (M (loss, dB)	Hz)	vsw	R (:1)	NO. OF SECTIONS
(loss < 1 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	40 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
DC - 180	270	370	525 - 2350	6400	17	1.2	7

Low Pass Filter Electrical Specifications (T



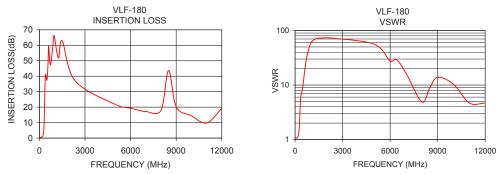
ATTENUATION (dB) 40dE 20dE 3 dB 1dB fco F 20 ER 20dF FREQUENCY (MHz)

Electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.26	1.08
100	0.46	1.08
180	0.84	1.14
235	1.55	1.39
270	3.14	1.81
300	7.42	2.86
325	14.85	4.43
350	25.50	5.77
370	35.45	6.32
525	40.87	11.69
950	66.29	52.65
1700	52.11	62.05
2350	37.00	66.82
4500	23.37	31.03
6400	18.35	28.03
8500	43.67	9.53
12000	19.07	4.69



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-Circuit's 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 conditions to eleven yeas visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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