.ow Pass Filter

VLF-180+

50Ω DC to 180 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

Features

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

CASE STYLE: FF704

Connectors	Model
SMA	VLF-180+
SMA	VLF-180

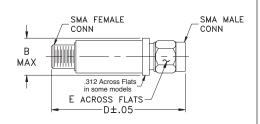
Applications

- 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)

1.43

36.32

Ε

grams

10

.312

7.92

В

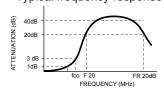
.410

10.41

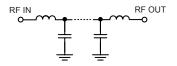
Low Pass Filter Electrical Specifications (T_{AMB}= 25°C)

PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)		VSWR (:1)		NO. OF SECTIONS	
(loss < 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

Typical frequency response

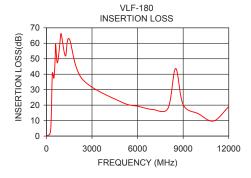


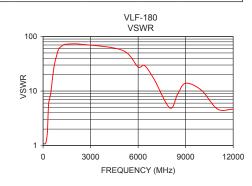
Electrical schematic



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-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

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning category:

Click to view products by Mini-Circuits manufacturer:

Other Similar products are found below:

MAPDCC0001 MAPDCC0004 PD0409J5050S2HF 880157 HHS-109-PIN DC1417J5005AHF AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN B39321R801H210 1A0220-3 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 FM-104-PIN CER0813B MAPDCC0005 3A325 40287 41180 ATB3225-75032NCT BD0810N50100AHF BD2425J50200AHF C5060J5003AHF JHS-115-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2194E CDBLB455KCAX39-B0 TGL2208-SM, EVAL RF1353C PD0922J5050D2HF 1E1305-3 1G1304-30 B0922J7575AHF 2020-6622-20 TP-102-PIN TP-103-PIN BD1222J50200AHF