# **Bandpass Filter**

**ZBPF-75+** 

 $50\Omega$  0.063 to 0.087 MHz

### **The Big Deal**

- Very low frequency band pass filter (KHz Range) of fractional bandwidth 32%
- Good ultimate rejection of 30dB Typical from 50 – 800MHz
- Compact connectorized package for this frequency range



CASE STYLE: CC1397

#### **Product Overview**

ZBPF-75-1+ is a  $50\Omega$  bandpass filter into a rugged shielded case of (2.0" x 2.0" x 0.75") size. The passband range for this is 63 KHz to 87 KHz. The model has good passband IL, roll-off and ultimate rejection. This will find its application in wire line broadband access.

#### **Key Features**

Feature	Advantages
Good passband insertion loss and roll-off	Low insertion loss will be used in designs optimized for high performance applications. Good roll-off will attenuate frequencies closer to the passband with good rejection value of >20dB.
Good ultimate rejection	This enables the filters to attenuate spurious signals and reject harmonics for broad band frequency.
Connectorized package	The connectorized packages are easily to interface with other devices and well suited for test set-ups.

For detailed performance specs & shopping online see web site **Features** 

# **Bandpass Filter**

50Q 0.063 to 0.087 MHz

#### **ZBPF-75+**



## CASE STYLE: CC1397

Connectors Model SMA-FEMALE

Price Qty. ZBPF-75-S+ \$69.95 ea.

#### Flectrical Specifications at 25°C

Electrical opecinications at 25 0								
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit	
	Center Frequency	_	_	_	0.075	_	MHz	
Pass Band	Insertion Loss	F1-F2	0.063 - 0.087	_	2.4	4.0	dB	
	VSWR	F1-F2	0.063 - 0.087	_	2.0	2.5	:1	
Stop Band, Lower	Insertion Loss	DC-F3	DC - 0.045	20	37	_	dB	
Stop Ballu, Lower	VSWR	DC-F3	DC - 0.045	_	4.2	_	:1	
Stop Band, Upper	Insertion Loss	F4-F5	0.125 - 800	20	31	_	dB	
Stop Band, Opper	VSWR	F4-F5	0.125 - 800	—	13	_	:1	

#### **Maximum Ratings** -40°C to 85°C Operating Temperature Storage Temperature -55°C to 100°C

#### RF Power Input +5dBm max.

Permanent damage may occur if any of these limits are exceeded

### **Functional Schematic**

· Harmonic and sub-harmonic Rejection

Low frequency passband 63 to 87KHz

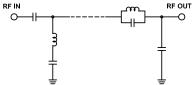
· Wide stopband Rejection

· Rugged shielded case

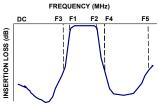
• Transmitters / Receivers

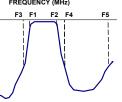
**Applications** · Fiber optics network · Wire line broadband access

Lab Use



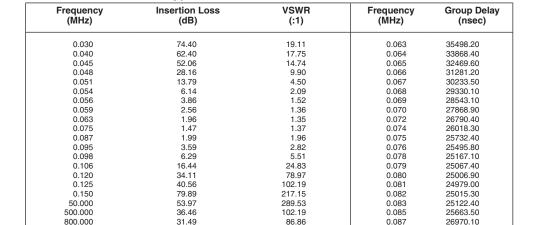
#### **Typical Frequency Response**



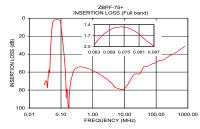


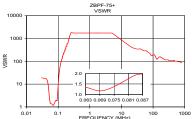
#### + RoHS compliant in accordance with EU Directive (2002/95/EC)

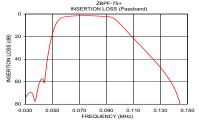
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

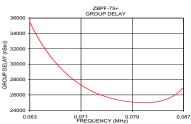


Typical Performance Data at 25°C









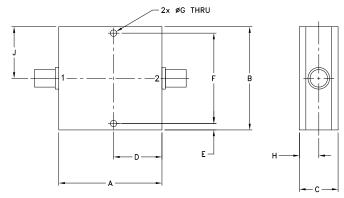


P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com

#### **Coaxial Connections**

INPUT	1 (SMA female)
OUTPUT	2 (SMA female)

#### **Outline Drawing**



#### Outline Dimensions (inch )

F	E	D	С	В	Α
1.750	.13	.938	.75	2.00	2.00
44.45	3.30	23.83	19.05	50.80	50.80
wt			J	Н	G
grams			1.00	.38	.125
100.0			25.40	0.65	2 12



For detailed performance specs & shopping online see web site