Bandpass Filter

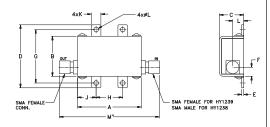
9 to 15 MHz 50Ω

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.25 W at 25°C

Permanent damage may occur if any of these limits are exceeded

Outline Drawing (HY1239)



Outline Dimensions (inch)

	F	E	D	C	B	A
	. 17	. 04	1.18	. 46	. 75	1.20
	4.32	1.02	29.97	11.68	19.05	30.48
wt.	M	L	K	J	H	G
grams	1.88	. 106	. 18	. 35	. 50	1.00
35.0	47.75	2.69	4.57	8.89	12.70	25.40

Note:

Features

- · High Rejection
- · Sharp Insertion Loss roll off
- Shielded case

Applications

- · High rejection applications
- · Image rejection
- · IF signal processing
- Receivers / Transmitters
- Test Lab

ZX75-12-S+



MALE FEMALE SMA shown

SMA Connectors		Model	Case
INPUT	OUTPUT		
FEMALE	FEMALE	ZX75-12-S+	HY1239
MALE	FEMALE	ZX75-12M-S+	HY1238

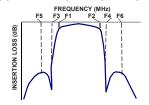
+RoHS Compliant

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

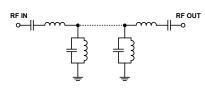
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ.	PASSBAND (MHz)	STOPBANDS (MHz)				VSWF	R (:1)	
(MHz)	(Loss < 3.5dB)	Loss >	20dB	Los	s > 40dB	Pass	band	Stopband
Fc	F1 - F2	F3	F4	F5	F6	Тур.	Max.	Тур.
12	9 - 15	7.5	18	7	20 - 3000	1.5	2.2	30

Typical Frequency Response

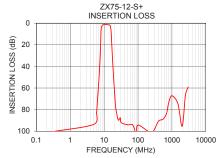


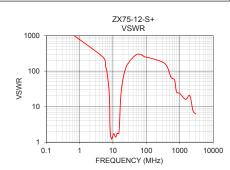
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	100.39	1737.18
7.0	53.30	62.05
7.5	36.73	35.46
8.0	14.55	9.74
8.2	5.51	2.37
8.5	3.45	2.36
9.0	1.85	1.22
11.0	1.31	1.40
12.0	1.26	1.37
13.0	1.59	1.77
15.0	2.09	1.75
15.7	4.10	2.81
16.0	6.58	4.66
16.6	15.51	11.77
18.0	37.07	30.49
20.0	60.12	59.91
100.0	94.22	248.17
1000.0	67.12	23.49
3000.0	59.03	6.19





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

M dimension is 2.05 inch (52.07 mm) for HY1238 Case Style.