Bandpass Filter

ZABP-587+

 50Ω 470 to 705 MHz

The Big Deal

- · High rejection
- Good VSWR
- Connectorized package



CASE STYLE: UU1842

Product Overview

ZABP-587+ is a 50Ω bandpass filter with a rugged connectorized package covering the passband of 470 to 705 MHz. The bandpass filter offers good matching within the passband and provides high rejection. This filter has miniature high Q capacitors and wire welded inductors for high reliability. It has repeatable performance across lots and consistent performance across temperature.

Key Features

Feature	Advantages		
High rejection	ZABP-587+ has sharper transition and rejects spurious signals in the stopband.		
Good VSWR	This filter maintains typical VSWR over passband frequency range making this filter easier to integrate into receiver and transmitter RF chains with less concerns for in band frequency ripple.		
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.		

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 warnanty 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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 50Ω 470 to 705 MHz

ZABP-587+



Connectors

SMA-M\F ZABP-587-S+

Flectrical Specifications at 25°C

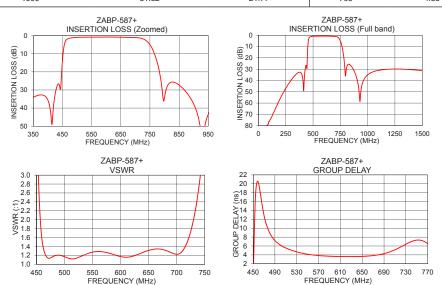
Electrical Specifications at 25 C							
Parai	Parameter		Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	587	-	MHz
Pass Band	Insertion Loss	F1-F2	470-705	-	1.8	2.5	dB
	VSWR	F1-F2	470-705	-	1.7	1.9	:1
	op Band, Lower Insertion Loss VSWR	DC-F3	DC - 200	50	55	-	dB
Stop Band, Lower		F3-F4	200-400	25	31	-	dB
		DC-F4	DC - 400	-	20	-	:1
	Insertion Loss	F5-F6	800-850	20	25	-	dB
Stop Band, Upper		F6-F7	850-1500	-	25	-	dB
VCMD	E5-E7	900-1500	_	20	_	-4	

Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W max.

Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	97.42	12140.46	470	12.89
100	76.21	857.78	480	9.03
200	55.91	225.75	490	7.22
400	35.44	32.13	500	6.20
428	30.10	17.04	510	5.54
448	19.11	5.58	520	5.06
460	3.22	1.54	540	4.38
470	1.60	1.14	560	3.97
587	0.75	1.22	580	3.76
705	1.05	1.24	587	3.72
740	3.10	2.77	600	3.66
783	20.29	8.38	620	3.62
800	34.22	10.27	640	3.63
805	30.06	10.93	660	3.73
836	25.92	15.75	670	3.84
850	27.26	17.94	680	4.02
900	37.81	23.35	690	4.28
950	43.39	25.63	695	4.45
1000	35.03	26.35	700	4.65
1500	31.32	21.77	705	4.88



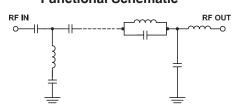
Features

- · High rejection
- Good VSWR
- Connectorized package

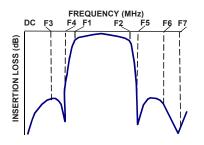
Applications

- · Harmonic rejection
- Transmitters / receivers
- TV Broadcasting / HDTV
- Test equipment

Functional Schematic



Typical Frequency Response



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

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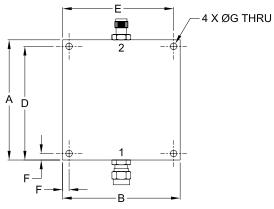
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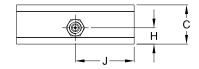
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Coaxial Connections

INPUT	SMA-MALE
OUTPUT	SMA-FEMALE

Outline Drawing





Outline Dimensions (inch mm)

	U	C	В	А
2.125	2.175	.750	2.250	2.300
53.98	55.25	19.05	57.15	58.42
wt.	J	н	G	F
grams	1.125	.312	.125	.125
124	28.58	7.93	3.18	3.18

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