Coaxial **Bandpass Filter**

50Ω 470 to 520 MHz

The Big Deal

- High rejection
- Good VSWR
- Connectorized package





Product Overview

ZABP-495+ is a 50 Ω bandpass filter with a rugged connectorized package covering the passband of 470 to 520 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-495+ 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 inte- grate 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.

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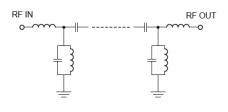
Features

- High rejection
- Good VSWR, 1.2:1 typical@ passband
- Connectorized package

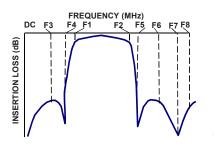
Applications

- Harmonic rejection
- Transmitters / receivers
- TV broadcasting
- Test equipment

Functional Schematic



Typical Frequency Response





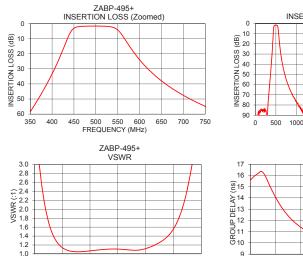
Electrical Specifications at 25°C Frequency (MHz) Min. F# Parameter

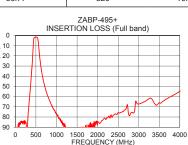
Pass Band	Center Frequency	-	-	-	495	-	MHz
	Insertion Loss	F1-F2	470-520	-	1.8	3.0	dB
	VSWR	F1-F2	470-520	-	1.2	1.55	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 300	60	76	-	dB
		F3-F4	300 - 410	20	27	-	dB
	VSWR	DC-F4	DC - 410	-	20	-	:1
Stop Band, Upper		F5-F6	625 - 800	20	31	-	dB
	Insertion Loss	F6-F7	800 - 3200	-	55	-	dB
		F7-F8	3200 - 4000	-	40	-	dB
	VSWR	F5-F8	625 - 4000	-	20	-	:1

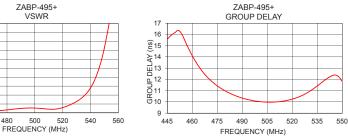
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	1 W max.			
Permanent damage may occur if any of these limits are exceeded.				

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)	
1	97.07	192.68	470	12.06	
100	87.64	75.93	472	11.78	
300	84.96	146.41	474	11.54	
405	30.44	30.98	476	11.33	
410	27.34	26.36	478	11.13	
420	20.72	17.94	480	10.96	
430	13.59	10.19	482	10.81	
450	3.03	1.74	484	10.67	
455	2.34	1.33	486	10.55	
470	1.77	1.05	490	10.34	
495	1.62	1.11	492	10.26	
520	1.73	1.12	495	10.15	
545	3.17	1.89	496	10.12	
570	12.13	7.92	497	10.09	
590	20.50	15.68	498	10.07	
620	30.44	27.68	500	10.03	
625	31.84	29.75	504	9.98	
800	60.63	84.05	510	9.99	
3200	63.30	42.91	516	10.10	
4000	54.74	36.77	520	10.24	







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480 500

440

460

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Max.

Unit

CASE STYLE: UU1842 Connectors Model SMA-M\F ZABP-495-S+

Тур.

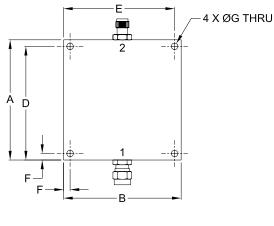
Bandpass Filter

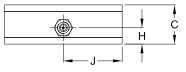


Coaxial Connections

INPUT	SMA-MALE
OUTPUT	SMA-FEMALE

Outline Drawing





Outline Dimensions (inch)

A 2.300 58.42	B 2.250 57.15	C . 750 19.05		E 2.125 53.98
F	G	н	J	wt.
F .125	G .125	••	J 1.125	

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