Coaxial **Bandpass Filter**

50Ω 1350 to 1650 MHz

ZX75BP-1500-S+

The Big Deal

- · Fast roll-off on the upper sideband
- · Good Matching and low loss in the pass band
- Connectorized package



Generic photo used for illustration purposes only CASE STYLE: KE1467

Product Overview

ZX75BP-1500-S+ is a wideband bandpass filter in a rugged connectorized package covering 1350 to 1650 MHz. This is designed for asymmetric rejection applications such as super-heterodyne receivers. By having asymmetric band, faster roll-off at upper side band is achieved in a comparatively smaller package and lower pass band insertion loss. It has repeatable performance across lots and consistent performance across temperature

Key Features

Feature	Advantages			
Fast roll-off on the upper side band	Wide bandwidth filter with fast-roll off on the upper side band, which increases selectivity on the adjacent channel.			
Good matching and low loss in pass band	This filter has good matching and low loss in the pass band			
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.			
High power handling	This model uses high Q capacitors and high current handling inductors which is well suited for high power applications.			

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Coaxial **Bandpass Filter**

50Ω 1350 to 1650 MHz

· Fast roll-off on the upper side band

· Good matching in the pass band Connectorized package

Features

Applications

· Radio astronomy

 Maritime Mobile satellite

(gB)

INSERTION LOSS

· Aviation and Aeronautical · Digital audio broadcasting

· Wireless medical telemetry

ZX75BP-1500-S+



Generic photo used for illustration purposes only CASE STYLE: KE1467 Connectors Model SMA-M\F ZX75BP-1500-S+

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	1500	-	MHz
Pass Band	Insertion Loss	F1-F2	1350-1650	-	0.7	2.0	dB
	VSWR	F1-F2	1350-1650	-	1.2	1.78	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 85	20	30	-	dB
	VSWR	DC-F3	DC - 85	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	2030-2800	20	29	-	dB
	VSWR	F4-F5	2030-2800	-	20	-	:1

Maximum Ratings -40°C to 85°C Operating Temperature

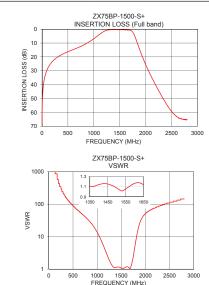
opolating rompolataro	10 0 10 00 0
Storage Temperature	-55°C to 100°C
RF Power Input	6.3 W max.

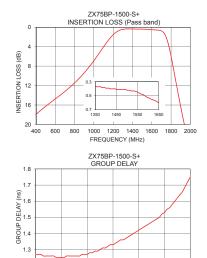
Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

i jpicar i chichmanoo Bata at 20 0					
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)	
1	68.96	1737.18	1350	1.27	
5	55.03	1737.18	1380	1.26	
85	30.47	1737.18	1400	1.25	
290	20.37	248.17	1420	1.26	
500	16.27	91.43	1440	1.27	
975	7.56	15.81	150	0.66	
1120	3.51	5.72	1460	1.28	
1200	1.57	2.86	1480	1.31	
1350	0.37	1.11	1490	1.32	
1500	0.42	1.07	1500	1.33	
1650	0.60	1.13	1520	1.36	
1770	3.36	3.92	1530	1.38	
1810	6.98	9.08	1540	1.40	
1880	14.32	25.56	1560	1.44	
1940	20.20	40.41	1580	1.48	
2030	28.02	56.04	1600	1.53	
2065	30.83	62.05	1610	1.56	
2200	40.82	75.53	1620	1.60	
2550	61.35	115.81	1630	1.64	
2800	65.21	144.77	1650	1.75	

1.2 1350 1400 1450





1500 1550 1600 1650

FREQUENCY (MHz)

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FREQUENCY (MHz) F1 F2 F3 DC

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

RF OUT RF IN

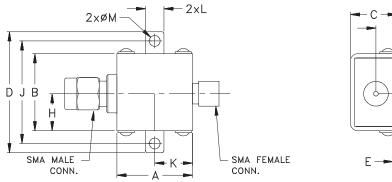
Functional Schematic

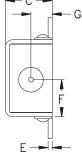
Typical Frequency Response

Coaxial Connections

INPUT	SMA-MALE
OUTPUT	SMA-FEMALE

Outline Drawing





Outline Dimensions (inch)

A	B	C	D	E	F	G
.74	.75	.46	1.18	.04	.362	.21
18.80	19.05	11.68	29.97	1.02	9.19	5.33
H	J	K	L	M		Wt.
.362	1.00	.37	.18	.11		grams
9.19	25.40	9.40	4.57	2.79		24.4

Note: Please refer to case style drawing for details

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