Coaxial

High Pass Filter

ZX75HP-73+

50Ω 140 to 2000 MHz



CASE STYLE: KE1467

The Big Deal

- Low insertion loss
- High rejection
- Connectorized package

Product Overview

ZX75HP-73+ is a High pass filter in a rugged connectorized package covering 140 to 2000 MHz. This filter will find its application in TV Broadcast, point-to-point military radio and cordless telephones. It has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages
Low insertion loss	Can be used in high performance applications.
Good rejection	This enables the filter to attenuate spurious signals and reject harmonics for broad band frequency.
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.

Notes
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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.
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CASE STYLE: KE1467

Connectors	Model
SMA-M\F	ZX75HP-73-S+

Features

- Wide band, 140 MHz to 2000 MHz
- High rejection
- Connectorized package

Applications

- TV Broadcast
- Point-to-point military radio
- Cordless telephones

Electrical Specifications at 25°C

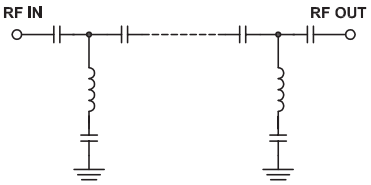
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC-53	20	30	-	dB
	VSWR	DC-F1	DC-53	-	20	-	:1
Pass Band	Insertion Loss	F2-F3	140-2000	-	0.5	1.2	dB
	VSWR	F2-F3	140-2000	-	1.4	-	:1

Maximum Ratings

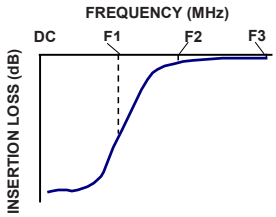
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W.

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

Functional Schematic

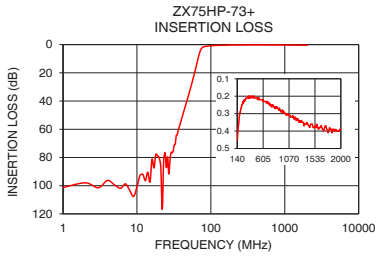


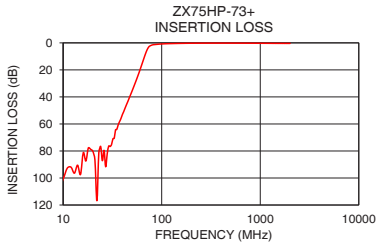
Typical Frequency Response

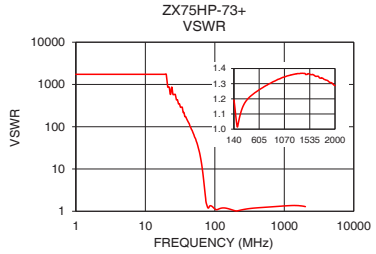


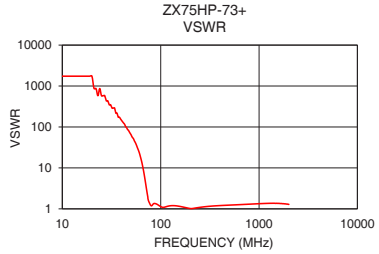
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	101.24	1737.18
18	77.76	1737.18
20	80.21	1737.18
34	64.38	289.53
40	52.88	144.77
47	40.49	82.73
53	30.96	51.10
57	24.85	34.75
63	15.80	16.72
69	7.43	5.52
73	3.59	2.34
80	1.55	1.19
105	0.72	1.09
140	0.45	1.19
185	0.30	1.05
470	0.21	1.22
940	0.29	1.33
1480	0.36	1.36
1700	0.39	1.35
2000	0.39	1.29









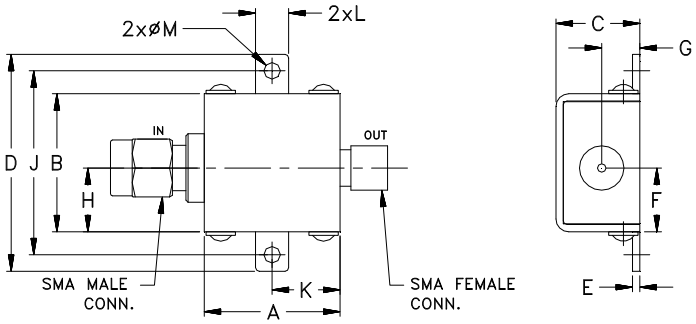
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
0.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33

H	J	K	L	M	wt
.349	1.00	.37	.18	.09	grams
8.86	25.40	9.40	4.57	2.29	24.4

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