Coaxial

Low Pass Filter

ZLPF-40W-222-S+

50Ω DC to 2200 MHz

Generic photo used for illustration purposes only

CASE STYLE: SS2806

The Big Deal

- High power handling, 40W
- Low Insertion loss
- High rejection
- Good VSWR
- Connectorized package

Product Overview

ZLPF-40W-222-S+ is a 50Ω low pass filter built in connectorized package which can handle high power. Covering DC-2200 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. In addition, it offers consistent performance across temperature and production lots.

Key Features

Feature	Advantages
High power handling	Handles high power. Suitable for high performance application
High rejection	Provides high adjacent band rejection
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups
Good VSWR	Provides good matching when used with other devices.

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Connectors	Model
SMA-M/F	ZLPF-40W-222-S+

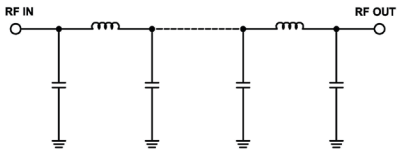
Features

- High power handling, 40W
- Low insertion loss
- High rejection
- Good VSWR
- Connectorized package

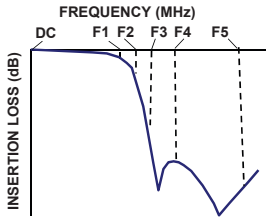
Applications

- Wireless communication
- Harmonic rejection
- Transmitters / Receivers

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

Electrical Specifications at 25°C

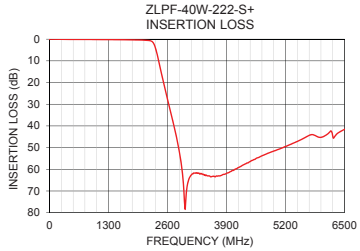
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-2200	—	0.7	1.0	dB
	VSWR	DC-F1	DC-2200	—	1.29	1.5	:1
Stop Band	Insertion Loss	F2-F3	2650-3200	20	29	—	dB
		F3-F4	3200-4500	45	55	—	dB
		F4-F5	4500-6300	30	39	—	dB

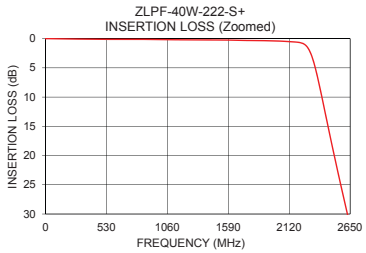
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	40W max.

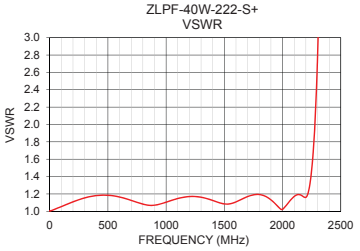
*Passband rating, derate linearly to 20W at 85°C ambient.
Permanent damage may occur if any of these limits are exceeded.

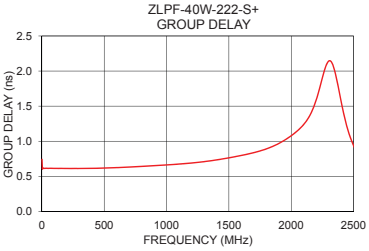
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.00	1.00	1	0.74
10	0.01	1.01	110	0.61
100	0.03	1.05	220	0.61
420	0.11	1.18	330	0.61
740	0.13	1.11	440	0.61
1060	0.17	1.13	550	0.62
1380	0.22	1.13	660	0.63
2200	0.64	1.16	770	0.64
2250	0.95	1.48	880	0.65
2320	3.20	3.86	990	0.66
2520	20.71	46.24	1100	0.67
2650	32.04	64.99	1210	0.69
3000	74.77	76.48	1500	0.76
3150	62.11	77.76	1600	0.80
3200	61.76	77.28	1900	0.97
4000	60.97	76.40	2000	1.08
4100	59.84	76.26	2110	1.26
4500	55.54	72.22	2150	1.37
6300	44.39	54.08	2160	1.40
6500	41.60	68.19	2200	1.59









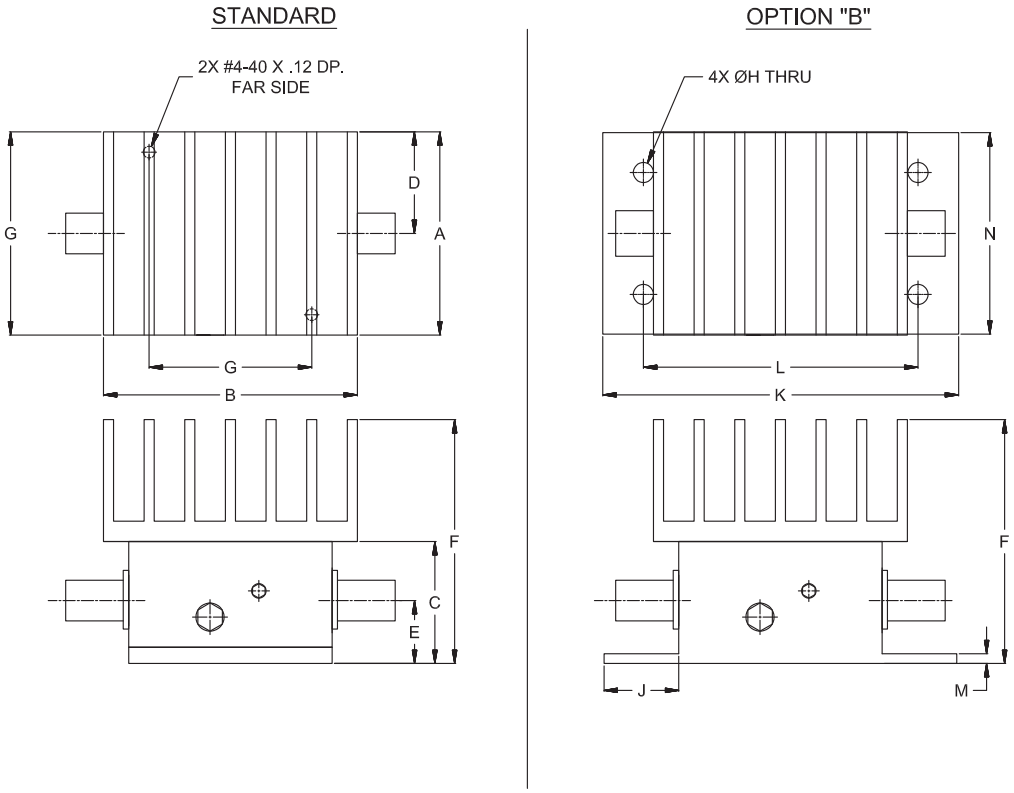
Notes

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 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

Coaxial Connections

PORT - 1	SMA-MALE
PORT - 2	SMA-FEMALE

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
1.25	**1.56**	**.75**	**.63**	**.39**	**1.50**	**1.000**
31.75	36.62	19.05	16.00	9.91	38.10	25.40

H	J	K	L	M	N	Wt.
1.25	**.46**	**2.19**	**1.688**	**.06**	**.750**	grams
3.18	11.68	55.63	42.88	1.52	19.05	70

Note: Please refer to case style drawing for details