



Microwave Filter Company

HPL Series High Power Lowpass Filters

Microwave Filter Company's HPL series high power lowpass filter is a compact, high quality device with a variety of applications. Low insertion loss and high power rating make it ideal for transmitter outputs. The wide rejection band protects receiver front-ends from co-located high power transmission equipment. The broad, flat passband and low VSWR is an excellent environment for all digital formats.



The HPL series is built to last. Connectors are MIL-C-39012. The container is constructed of sturdy, nickel plated brass. All seams and potential signal egress points are sealed with conductive, silver bearing epoxy. Internal mechanical fastening ensures that each unit will operate to specification, particularly in rough, vehicular environments. Low profile and lightweight, the HPL series can also be weatherized for outdoor mounting and operation.

All HPL series lowpass filters are subjected to rigorous quality standards. After tuning each unit to specification, the filters are subjected to both RF power and Hi-Pot testing. Automated environmental testing such as thermal shock and vibration are followed by 100% electrical and mechanical inspection.

FEATURES:

- Broad operating range (30 to 1000 MHz)
- Low insertion loss
- Wide range of connector options
- Low VSWR
- Wide rejection band
- High power rating
- Compact package

MODEL DESIGNATION

Code	Description
1	Model Number
2	Cutoff Frequency (MHz)
3	Input Connector
4	Output Connector

SPECIFICATIONS:

Available cutoff frequencies:	30 to 1000 MHz
Insertion Loss:	0.5 dB max
Power Rating:	100 Watts max from 30 to 300 MHz Fc 50 Watts max from 305 to 1000 MHz Fc
Rejection * :	50 dB min from 1.3 (Fc) to 6 (Fc)
Return Loss:	16 dB min
Operating Temperature:	-20°C to +70°C
Connector Options:	50 ohms, Type N, BNC, TNC, SMA

* Upper Rejection Limit is 6 (Fc) or 3 GHz, which ever is lowest

SAMPLE

HPL -	500/	NF/NF
1	2	3/4

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