



The RFS LPF low pass filter provides a minimum of 35dB rejection up to 4.5 GHz. A custom designed structure is used to create a very sharp cut-off rate and to maintain high rejection. Unlike traditional coaxial low pass filters, the RFS LPF does not exhibit the typical rejection band periodicity. High quality insulating material is used throughout the internal design of the low pass filter leading to high power handling capability and very low insertion loss while keeping dimensions small.

With the lowpass filter installed a broadcast TV transmitter can be safely operated in co-location with other wireless services such as GSM1800 and WiFi.

FEATURES / BENEFITS

- High power handling capability
- Low insertion loss
- Sharp cut off rate
- 35dB rejection up to 4.5GHz
- Compact size



LPF16E4

Technical features

GENERAL SPECIFICATIONS

| | | |
|------------------------------|--|------------------------------------|
| Product Type | | Band IV/V (UHF) TV Low Pass Filter |
| Technical Application | | Harmonic suppression |

ELECTRICAL SPECIFICATIONS

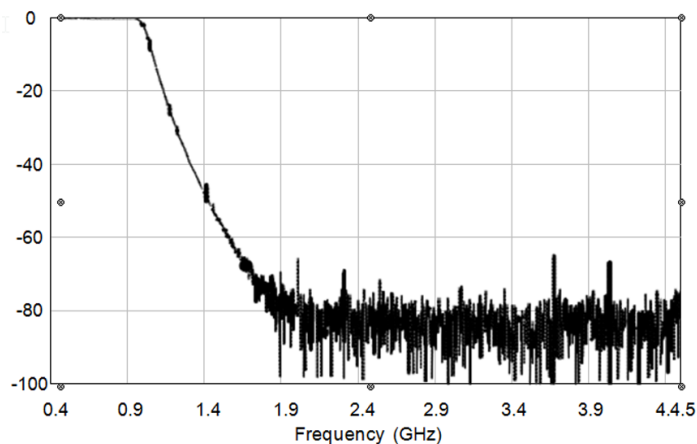
| | | |
|---------------------------------|-----|---|
| Impedance | | |
| Pass Band | MHz | 470 - 862 |
| Pass band Return Loss | | >27 dB (VSWR<1.1) |
| Pass Band Insertion Loss | dB | < 0.08 dB (typ. 0.06 dB) |
| Stop band rejection | | >12 dB @ f > 1100MHz >40 dB (1400 MHz-1550MHz) >55 dB (1550MHz-4500MHz) |
| Power Handling | kW | 5 kW DVB av power |

MECHANICAL SPECIFICATIONS

| | | |
|-------------------|--|---------------------------------------|
| Connectors | | 1 5/8" or 3 1/8" flanged or unflanged |
| Dimensions | | 295mm x 100mm x 100mm |

TEMPERATURE SPECIFICATIONS

| | | |
|--------------------------|---------|------------------------|
| Temperature Range | °C (°F) | -10 to 50 (14 to 122) |
|--------------------------|---------|------------------------|



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LPF Series

Notes