

Compact, Stable Lowpass Filtering for Demanding RF Applications

Spectrum Control's tubular lowpass filters provide a compact, in-line filtering solution optimized for demanding RF applications. Featuring a resonant-line design, they offer low loss and exceptional electrical stability across extreme temperature ranges. The product family covers cutoff frequencies from 4 to 12 GHz and is available with SMA male and female connectors in multiple configuration options. Three- to seven-section rejection responses are available, with custom configurations offered to meet specific application requirements.

4 - 12 GHz

CUTOFF FREQUENCY

3 - 7 Sections

REJECTION RESPONSE

5 Watts

POWER HANDLING

SMA Male / Female

CONNECTOR OPTIONS

Product Features

- Compact, in-line construction
- Temperature-stable performance
- Low insertion loss
- 5 W power handling
- Custom configurations available

Applications

- Communication systems
- Quantum computing
- Radar systems
- Commercial and military RF systems
- Clean-up filtering



Part Number	3 dB Cutoff Frequency	Insertion Loss 1.0 dB (max.)	VSWR 1.5:1 (max.)	Attenuation 50 dB Min	Length (inches)
BOM10944	4000 MHz	DC to 3400 MHz	DC to 3400 MHz	5600 to 12000 MHz	3.65
BOM10945	6000 MHz	DC to 5100 MHz	DC to 5100 MHz	8400 to 18000 MHz	2.63
BOM10946	8000 MHz	DC to 6800 MHz	DC to 6800 MHz	11200 to 18000 MHz	2.10
BOM10947	10000 MHz	DC to 8500 MHz	DC to 8500 MHz	14000 to 20000 MHz	1.84
BOM10948	12000 MHz	DC to 10200 MHz	DC to 10200 MHz	16800 to 26000 MHz	1.59

Note: all above parts represent 6 section responses.