

Tunable YIG Filters Feature Miniature Profile and High Performance

These tunable YIG filters cover 7-11 GHz, supporting a wide range of microwave communications and instrumentation applications

Micro Lambda Wireless introduces the MLSF series of miniature YIG filters. These filters provide low insertion loss and flat response over the

entire frequency range of 7 to 11 GHz, with a 3 dB passband of 50 MHz minimum. Key specifications for the MLSF-20711 include:

- Two stage design
- 50 MHz 3 dB bandwidth (others available)
- 2 dB insertion loss
- 2 dB maximum passband spurs and ripple
- 2:1 maximum passband VSWR
- 12 dB/octave selectivity
- 45 dB minimum off-resonance isolation
- 25 dB minimum off-resonance spurious
- +10 dBm limiting level (minimum)
- 10 MHz/mA tuning sensitivity
- ±4 MHz tuning linearity (maximum)
- 15 MHz maximum temperature drift
- Specifications guaranteed for +10° to +40°C case temperature

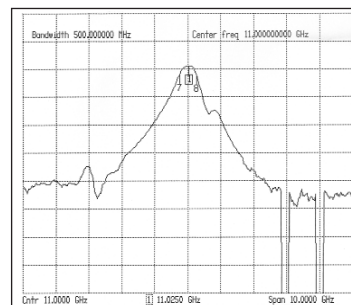
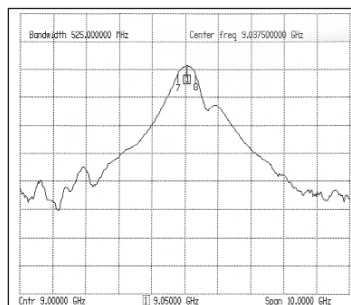
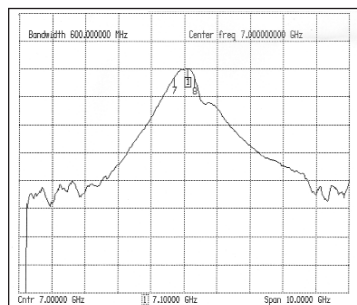
Applications for the new filter line include portable test sets, VXI, VME and PXI instru-



New two-stage YIG filters have a footprint of 0.5 x 0.4 inches and only 0.25 inch height.

ments, miniature receivers. Many applications are possible for small microwave communications and test equipment. They can reduce system costs with their high performance, small size and p.c. board mountable packaging.

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MSLF passband measurements at 7 GHz (left), 9 GHz (center) and 11 GHz (right).