The MLFI series of miniature YIG bandpass filters (see figure) provides 3 dB passbands from 20 to 40 MHz, depending on the model, with as little as 4 dB insertion loss and typical passband ripple of only 2 dB. The four four-stage models include the 1 to 2 GHz MLFI-41002 with 20 MHz passband, the 2 to 4 GHz MLFI-42004 with 30 MHz passband, the 4 to 8 GHz MLFI-44008 with 40 MHz passband, as well as the 2 to 8 GHz MLFI-42008 with 30 MHz passband. The maximum passband insertion loss occurs for the two lower frequency models, at 6 dB. Passband ripple and passband spurious content is controlled within a tolerance of 2 dB in all four-stage models.

The minimum off-resonance isolation for all four stage models is 80 dB, while off-resonance spurious products are better than −50 dBc. The typical selectivity for all four-stage models is 24 dB/octave. Tuning linearity ranges from ±2 MHz in the 1 to 2 GHz model MLFI-41002 to ±6 MHz in the 2 to 8 GHz model MLFI-42008. Hysteresis ranges from 2 MHz in the MLFI-41002 to 6 MHz in the MLI-42008.

Micro Lambda, Inc.
48041 Fremont Blvd., Fremont, CA 94538
Phone: (510) 770-9221
FAX: (510) 770-9213
e-mail: mcrolambda@aol.com
Internet: http://www.micro-lambda.com

Copyright © 1998 Penton Media Inc., Cleveland, Ohio 44144