Bandpass YIG tuned filters

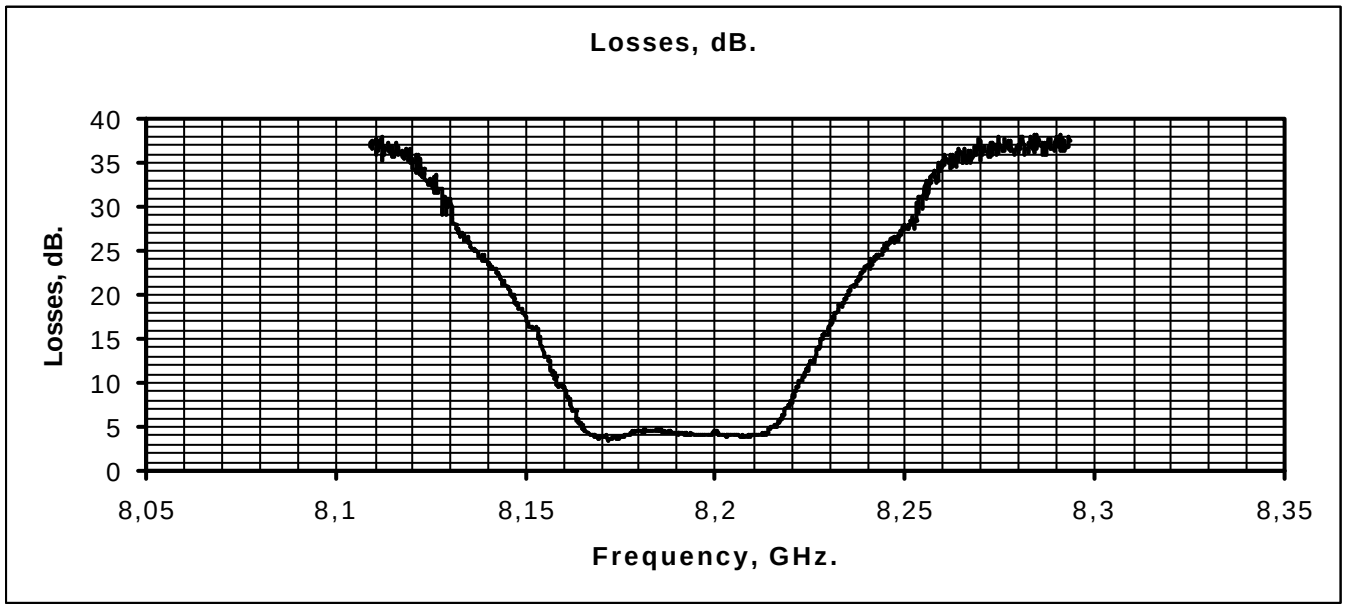
- Available frequency range 1-26 GHz
- Broad Bandwidth 100-500 MHz
- Narrow Bandwidth 4-12 MHz
- Low losses
- Coaxial, Microstrip and Waveguide design

Description

ELVA-1 YIG tuned bandpass filters cover octave and multioctave frequency band from 1 to 26 GHz. YTF`s offer excellent tuning linearity, good frequency stability, excellent selectivity and off-resonance rejection. Filters with 3 dB bandwidths ranging from very narrow (4 MHz) to wide bandwidths (500 MHz) as well as dual channel configurations are available.

YIG filters supply with Analog and Digital drivers.

Typical data for 4- stages filter:



Millimeter-wave Division

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COAXIAL BANDPASS YIG-TUNED FILTERS 1 GHz to 26 GHz
Specifications

Model	Frequency operating range, **GHz**	Bandwidth 3dB **MHz**	Ins. Loss **dB**	Off.Res.Isol. **dB**	Off.Res.Spur. **dB**	Operat. Temp. **°C**	Case Dimension (**mm**)
Four stages							
EYF-01-02	1.0 - 2.0	15÷30	5.0	80	50	-10 +50	25*25*25
EYF-02-04	2.0 - 4.0	20÷50	3.5	80	50	-10 +50	25*25*25
EYF-04-08	4.0 - 8.0	30÷60	3.5	80	50	-10 +50	25*25*35
EYF-04-12	4.0 - 12.0	30÷60	4.0	80	50	-60 +85	35*35*35
EYF-02-18	2.0 - 18.0	25÷70	8.0	80	50	-10 +50	35*35*35
EYF-08-18	8.0 - 18.0	40÷60	4.0	80	50	-10 +85	35*35*35
EYF-08-18-T	8.0 - 18.0	40÷70	4.0	80	50	-60 +50	35*35*35
EYF-18-26	18 - 26	50÷80	7.0	70	45	-10 +50	35*35*40

All devices are supplied with SMA female connectors. Heater voltage is 24 V.
*The case dimension without connectors and driver are pointed.

MICROSTRIP BANDPASS YIG-TUNED FILTERS 400 MHz to 8 GHz

Model	Frequency Range **GHz**	Bandwidth 3dB **MHz**	Ins. Loss **dB**	Off Res. Isol. **dB**	Off.ResSpur **dB**	Operat. Temp. **°C**	Case Dimension (**mm**)
Two and three stages							
EYF-04-08M	0.40 - 0.80	10÷14	5.0	45	20	+5 +55	30*25*20
EYF-08-01M	0.80 - 1.25	10÷18	6.0	60	45	-40 +55	30*30*12
Four stages							
EYF-01-02M	1.0 to 2.0	15÷30	4.0	70	50	+5 +55	30*30*20
EYF-02-04M	2.0 to 4.0	30÷60	4.0	70	50	+5 +55	30*30*20
EYF-04-08M	4.0 to 8.0	40÷80	3.0	70	50	+5 +55	30*30*25

All devices with microstrip connectors for surfice mounting.

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