

YIG-Tuned Band-Pass Filters

- ◆ 2-, 3-, 4-resonators
- ◆ Linearity
- ◆ Wide tuning range
- ◆ Reliability



DESCRIPTION

Designed for a spurious signal rejection. Are used as preselectors in spectrum analyzers and receivers.

Their principle of operation is based on a ferromagnetic resonance in ferrite resonators.

SPECIFICATIONS

Number of resonators	Filter type	Frequency range, GHz	Insertion loss, dB	Bandwidth at 3dB level, MHz	Min isolation, dB	Spurious resonance attenuation, dB, min	Flatness in the band, dB, max	Linearity, MHz, nom	Hysteresis, MHz, nom	Tuning sensitivity, MHz/mA	Connector type	Dimensions, mm
2-filters	FFK2-1	0.5-2.0	6	10	40	20	2	±3	5	10	3.5(f)	25x30x45
	FFK2-2	1.0-12.4	5	12	40	20	2	±10	15	25	3.5(f)	44x44x68
	FFK2-3	2.0-18.0	4	18	40	20	2	±10	20	30	3.5(f)	52x52x85
	FFK2-4	2.0-26.0	5	15	35	20	2.5	±25	25	30	3.5(f)	52x52x85
3-filters	FFK3-1	0.5-2.0	7	12	60	40	2	±3	5	10	3.5(f)	25x30x45
	FFK3-2	1.0-12.4	6	14	65	40	2	±10	16	25	3.5(f)	44x44x68
	FFK3-3	2.0-18.0	4.5	20	65	40	2	±10	20	30	3.5(f)	52x52x85
4-filters	FFK4-1	0.5-2.0	8	14	80	50	2	±3	5	10	3.5(f)	25x30x45
	FFK4-2	1.0-12.4	7	15	80	50	2	±10	15	25	3.5(f)	44x30x68
	FFK4-3	2.0-18.0	6	20	80	50	2	±10	20	30	3.5(f)	52x52x85
	FFK4-4	2.0-26.5	7	20	70	50	2.5	±40	25	30	3.5(f)	52x52x85
	FFK4-5	26.5-	7	30	60	40	2.0	±35	65	40	2.4(f)	52x52x85

Notes: 1. It is possible to design a filter for narrower ranges in accordance with improved specifications.

2. Operating temperature range -10 to 60 °C.

3. The parameters are measured at $P_{in}=10$ mW.

4. It is possible to manufacture YIG-Tuned BP Filters with IX type connectors (in accordance with GOST 13317-89) instead of 3.5 mm type connectors