

Test & Measurement — Tunable Bandpass Filters — BT Series

◆ Features:

- Manual Frequency Selection
- Direct-readout Center Frequency Dial
- 5 Section, Chebyshev Filter Response
- Digitally Controlled Versions Available

* **AVAILABLE FROM STOCK**



K&L Model	Frequency Range (MHz)	Passband Insertion Loss	Length Inch/mm	Width Inch/mm	Height Inch/mm
5BT-1.5/3.0-5-N/N	1.5-3.0	3.0 dB max	22.00/559	9.32/237	4.19/106
5BT-3/6-5-N/N	3-6	2.5 dB max	22.00/559	9.32/237	4.19/106
5BT-6/12-5-N/N	6-12	2.5 dB max	22.00/559	9.32/237	4.19/106
5BT-12/24-5-N/N	12-24	2.5 dB max	14.70/373	7.00/178	4.00/102
5BT-15/30-5-N/N	15-30	2.5 dB max	14.70/373	7.00/178	4.00/102
5BT-24/48-5-N/N	24-48	1.3 dB max	9.80/249	5.38/137	2.75/70
5BT-30/76-5-N/N*	30-76	1.3 dB max.	9.80/249	9.80/249	2.75/70
5BT-48/95-5-N/N	48-95	1.3 dB max.	9.80/249	9.80/249	2.75/70
5BT-63/125-5-N/N*	63-125	1.3 dB max.	9.80/249	5.38/137	2.75/70
5BT-95/190-5-N/N	95-190	1.3 dB max.	9.80/249	5.38/137	2.75/70
5BT-125/250-5-N/N*	125-250	1.3 dB max.	9.80/249	5.38/137	2.75/70
5BT-190/375-5-N/N	190-375	1.3 dB max.	9.80/249	5.38/137	2.75/70
5BT-250/500-5-N/N*	250-500	1.0 dB max.	9.80/249	5.38/137	2.75/70
5BT-375/750-5-N/N*	375-750	1.0 dB max.	9.80/249	5.38/137	2.75/70
5BT-500/1000-5-N/N*	500-1000	1.0 dB max.	9.80/249	5.38/137	2.75/70
5BT-750/1500-5-N/N*	750-1500	1.0 dB max.	9.80/249	5.38/137	2.75/70
5BT-1000/2000-5-N/N*	1000-2000	1.0 dB max.	7.38/187	2.88/73	2.75/70
5BT-1200/2600-5-N/N*	1200-2600	1.0 dB max.	7.38/187	2.88/73	2.75/70
5BT-1500/3000-5-N/N	1500-3000	1.0 dB max.	7.38/187	2.88/73	2.75/70

◆ Specifications:

Type	Nominal 3 dB BW	VSWR	Impedance	Shape Factor	Power Handling	Dial Accuracy	RF Connector
5 Section	5%	1.5:1	50 Ohms	30 dB to 3 dB/50 dB to 3 dB 2.2:1 / 3.5:1	50 Watts CW	+/- 1%	Type N

Custom configurations and ruggedized versions also available. Contact the factory for custom requirements.



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◆ Applications:

- ATE Labs
- Wireless Communications
- CATV Test Verification (75 Ohm Units Available)
- Surveillance

◆ Additional Features:

K & L Microwave's BT Series Tunable Bandpass Filters cover the frequency range of 1.5 to 3,000 MHz with each model typically covering a complete octave. These filters are available with 5 sections and a nominal 3 dB bandwidth from 1% to 10%. Standard models are available with a 5% 3 dB bandwidth offering low insertion loss values from 1 dB through 1.3 dB and a VSWR of less than 1.5:1.

Each BT Series is constructed in a sturdy aluminum housing. Each section of the tunable filter is iris-coupled yielding a low ripple Chebyshev response.

Manual tuning of the BT Series is accomplished by a front panel vernier/dial assembly. Each dial is engraved with the direct-read-out center frequencies which eliminates the need for interpolating frequency calibration charts.



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