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DIRECT

Electronics Tech.

(MLT) Ceramic Miniature Filter

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▶ Product Introduction**Introduction (MLT)**

One of The Most Recommendable Intermediate Filters for AM (Murata PFB Compatible). Direct miniature ceramic filters for AM are one of the most recommendable intermediate filters, having such distinctive features as high selectivity, high stability and adjustment-free operation.

Additionally its easy matching with IC helps create an easy circuit design such as applications in Electric synthesized tuners, HiFi audio systems, AM stereo demodulations, One-chip non-adjustment IC's, and even smaller, thinner set structure to cope with these diversifying for AM receiver.

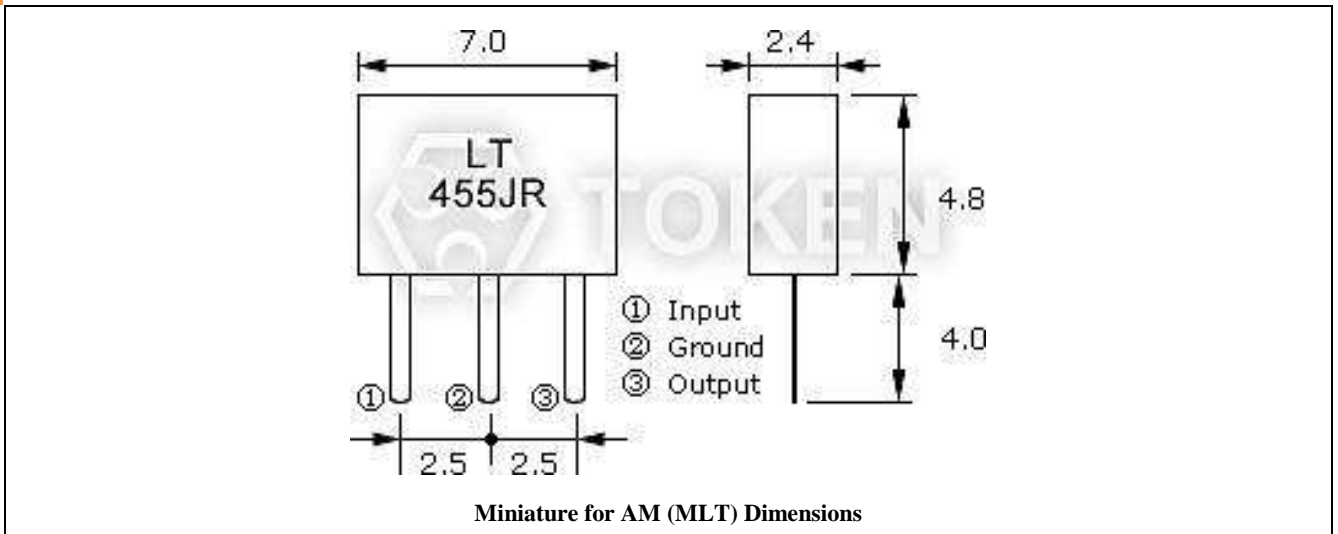
Features with center frequency between 450 and 470 kHz, standard tolerance ± 2 kHz, and synthesizers for the types of center frequencies 450, 459 and 468 kHz. Standard tolerance is ± 1 kHz.

Contact us with your specific needs. For more information, please link to Direct official website "[Ceramic Filters](#)".



► **Dimensions**

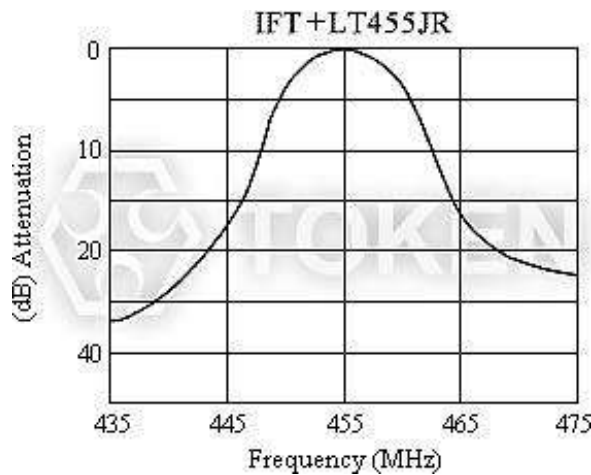
Dimensions (Unit: mm) (MLT)



► **Technical Characteristics**

Technical Characteristics (MLT)

Part Number	3dB Band Width (kHz)	Selectivity $\pm 9\text{kHz}$ off (dB)	Insertion Loss (dB)	Composition
LT 455JR	5.5 \pm 1.5	≥ 17	≤ 6	2 elements



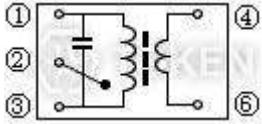
(MLT) Technical Characteristics

- Center Frequency (fo) is available in a range of 450 ~ 470kHz.
The nominal frequency tolerance is $\pm 2\text{kHz}$.



▶ **Recommended IFT**

Recommended IFT (MLT)

Item	7×7mm			5×5mm		
Winding Specification  Form bottom	①~②	②~③	④~⑥	①~②	②~③	④~⑥
	85T	67T	23T	84T	98T	33T
unloaded Qu	90			65		
Tuning Capacity	180PF			180PF		

▶ **Order Codes**

Order Codes (MLT)

LT 455JR	P
Part Number	Package



▶ General Information

Introduction of Filters

For more than two decades, piezo technology has been instrumental in the proliferation of solid state electronics. A view of the future reveals that even greater expectations will be placed on piezoelectric material in the area of new applications and for more stringent performance criteria in modern products.

Direct sophisticated ceramics technology has greatly increased selectivity and wide-band characteristics, and has stabilized the characteristics of ceramic filters. The series covers a wide range of attenuation and bandwidths to allow selection of the most optimum filter characteristics for each application.

Direct filters are band pass filters consisting of one or more ceramic resonators connected in a ladder network configuration. Pass band characteristics are determined by the relative resonant and anti-resonant frequencies of the resonators. Both narrow and wide pass band configurations are manufactured by adjusting the resonator frequency characteristics.

The IC (Integrated Circuit) has found wide use in the field of commercial equipment, such as automotive radios, stereo systems, 2-way communications, TV sets, etc. Thus, new miniature integrated filters, with high performance, are extremely desirable for use in IF circuits.

Furthermore, radio wave disturbance due to rapid progress of data transmitting rate and remarkable sophistication of communication network have become significant traffic conflicts. Accordingly, the demand for filters with high selectivity and wide pass band width has boosted.

The IC application of the active elements will continue its progress, and there will be a growing demand for highly selective, non-adjustable, miniature and wide pass band width IF circuit.

Advantage of Direct Piezoelectric Filters

Direct Electronics had been able to develop specialized piezo materials which when combined with an advance design have resulted in a complete line of practical, inexpensive piezo devices for entertainment and communications applications.

Direct reliably deliver high-quality components according to the each customer special needs with respect to performance, costs, and technology modifications.

For marketing discontinuations or sourcing activities concerning Piezoelectric Filter products, you are encouraged to contact our Sales Department so the request can be properly directed within Direct.

