

Version:
December 1, 2022



(LTZ)
Ceramic Filters

Token Electronics Industry Co., Ltd.

Taiwan: No.137, Sec. 1, Zhongxing Rd., Wugu District,
New Taipei City, Taiwan. 248012
Tel: +886 2981 0109 Fax: +886 2988 7487

China: 17P, Nanyuan Maple Leaf Bldg., Nanshan Ave.,
Nanshan Dist., Shenzhen, Guangdong, China. 518054
Tel: +86 755 26055363

[Web: www.token.com.tw](http://www.token.com.tw)

[Email: rfq@token.com.tw](mailto:rfq@token.com.tw)



▶ Product Introduction

Introduction (LTZ)

The Low Cost Standard AM Filters (Murata SFZ Compatible). Ceramic filters for AM (LTZ) series are designed to address the needs of standard AM filtering requirements and are recommended for use in low cost products where economically, efficient designs are critical.

Token ceramic filters LTZ series for AM conform to the RoHS directive. The LTZ series can be customized designs and tighter tolerances available on request.

Application of ceramic filters specific designs also available including different piezo band-pass devices and Q specifications adjusted to frequency requirements. Token ceramic filters can supply you high performance, high quality and stability.

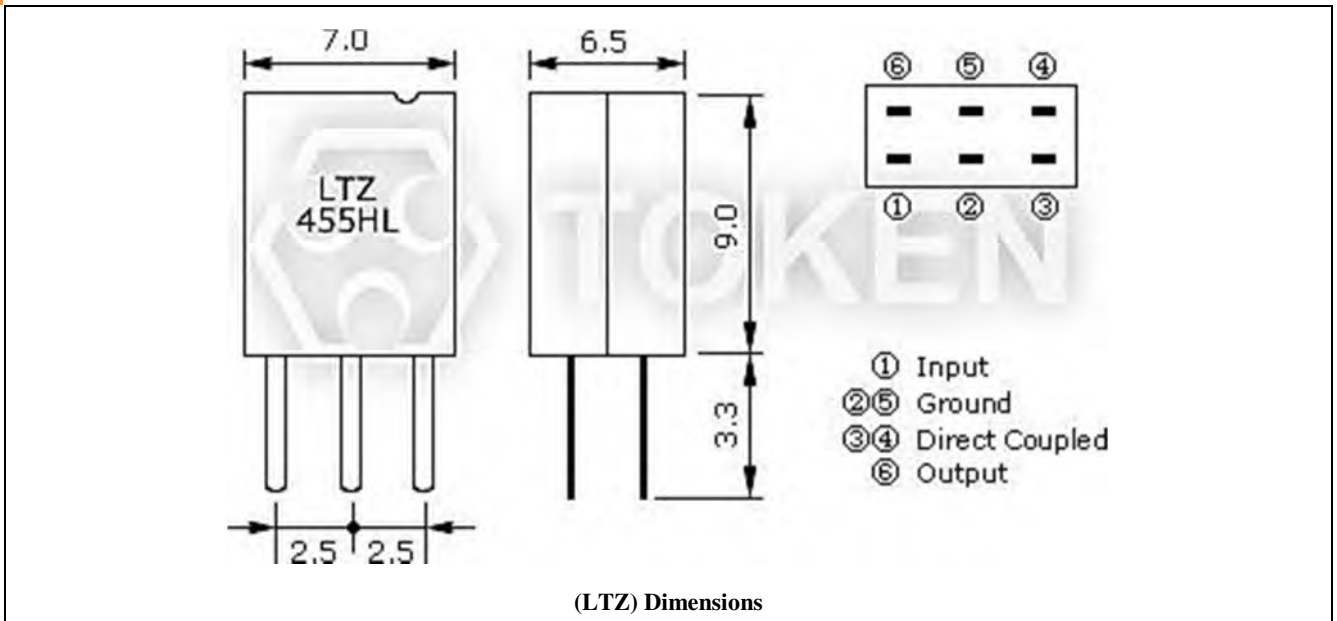
With dimensions (7.0 × 9.0 × 6.5mm), and Insertion Loss 7db, the (LTZ) series is composition of 2 elements direct coupling. Center Frequency (fo) is available in a range of 450KHz ~ 470KHz. The nominal frequency tolerance is ±2KHz.

Custom parts are available on request. Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales or link to Token official website "[Ceramic Filters](#)" for more information.



Dimensions

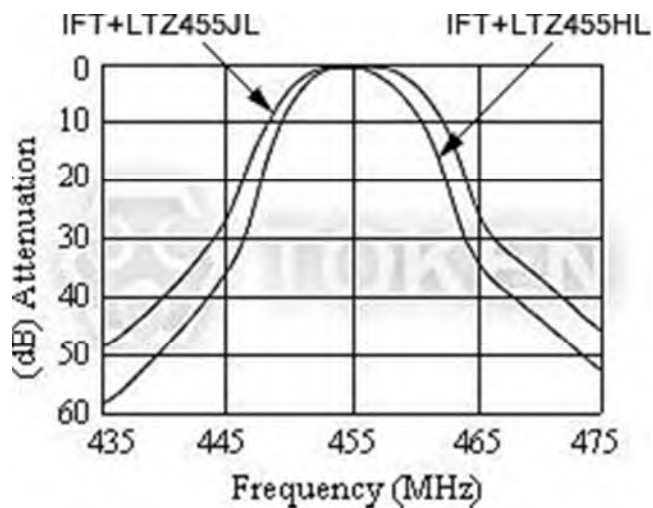
Dimensions (Unit: mm) (LTZ)



Technical Characteristics

Technical Characteristics (LTZ)

Part Number	Center Frequency (fo) (KHz)	3dB Band Width (KHz)	Selectivity ±9KHz off (dB) Min.	Insertion Loss (dB)	Composition
LTZ455HL	455.5±2.0	4.0±1	23	7	2 elements direct coupling type
LTZ455JL	456.0±2.0	5.5±1	18	7	

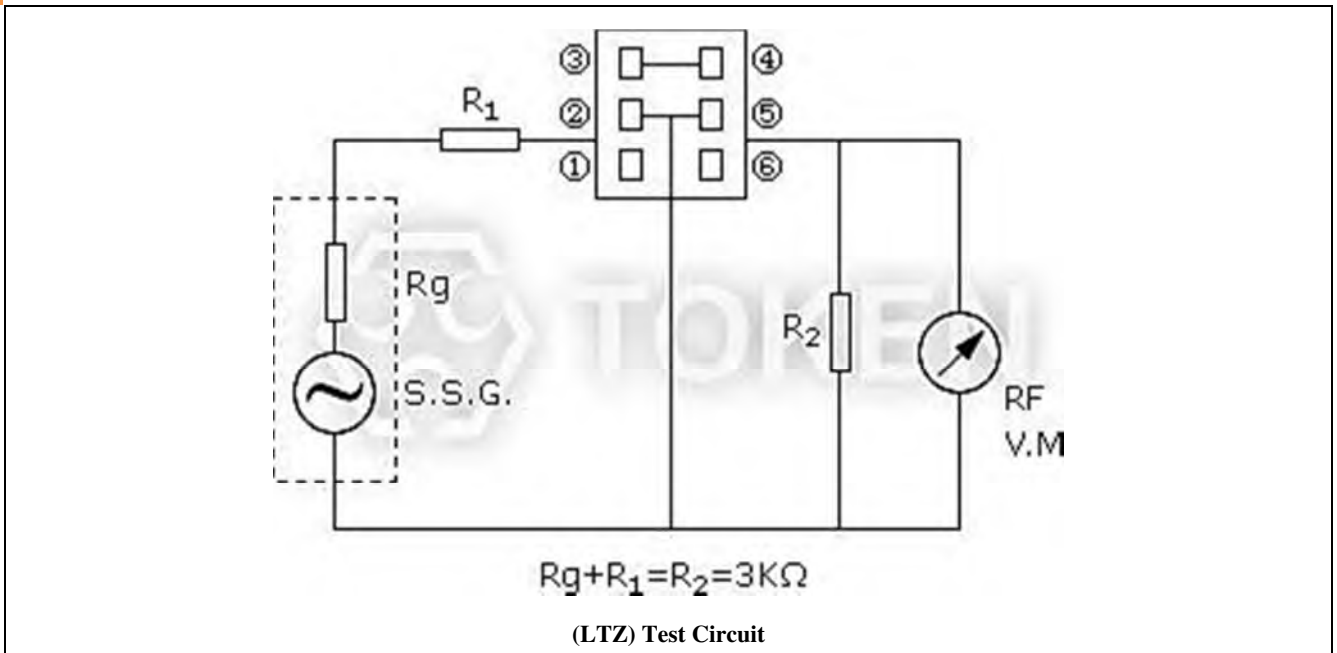


(LTZ) Technical Characteristics

- Center Frequency (fo) is available in a range of 450 ~ 470KHz. The noMin.al frequency tolerance is ±2KHz.

▶ Test Circuit

Test Circuit (LTZ)



▶ Recommended IFT

Recommended IFT (7mm Square) (LTZ)

Item	LTZ455HL/JL		
Winding Specification	①~②	②~③	④~⑥
Form bottom	68T	84T	14T
unloaded Qu	90		
Tuning Capacity	108PF		

▶ Order Codes

Order Codes (LTZ)

LTZ455HL	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.

Token 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.

Token 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 Token Piezoelectric Filters

Token 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.

Token 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 Token.

