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TOKEN

(LTCA/CV10.7M) SMD Ceramic Filters

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▶ Product Introduction

SMD Ceramic Filters with Low Profile 1.5 ± 0.2 mm, Murata SFECV10.7M Compatible.

Applications :

- Small, thin radios, automotive radios.
- Headphone stereos.

Token surface mount ceramic (LTCA/CV10.7M) filter for AM/FM has been made smaller, thinner and in a chip configuration for surface mounting to be of help to the total chip circuit. This is one more example of Token's leadership in converting conventional electronic components to chip technology.

The LTCA/CV10.7M series for FM-receivers are monolithic type ceramic filters which utilize the thickness expander mode of the piezoelectric ceramic. Piezoelectric element is connected in the sandwich shape by heat resistant substrate, thus it has excellent mechanical strength, and it is suitable for automatic mounting.

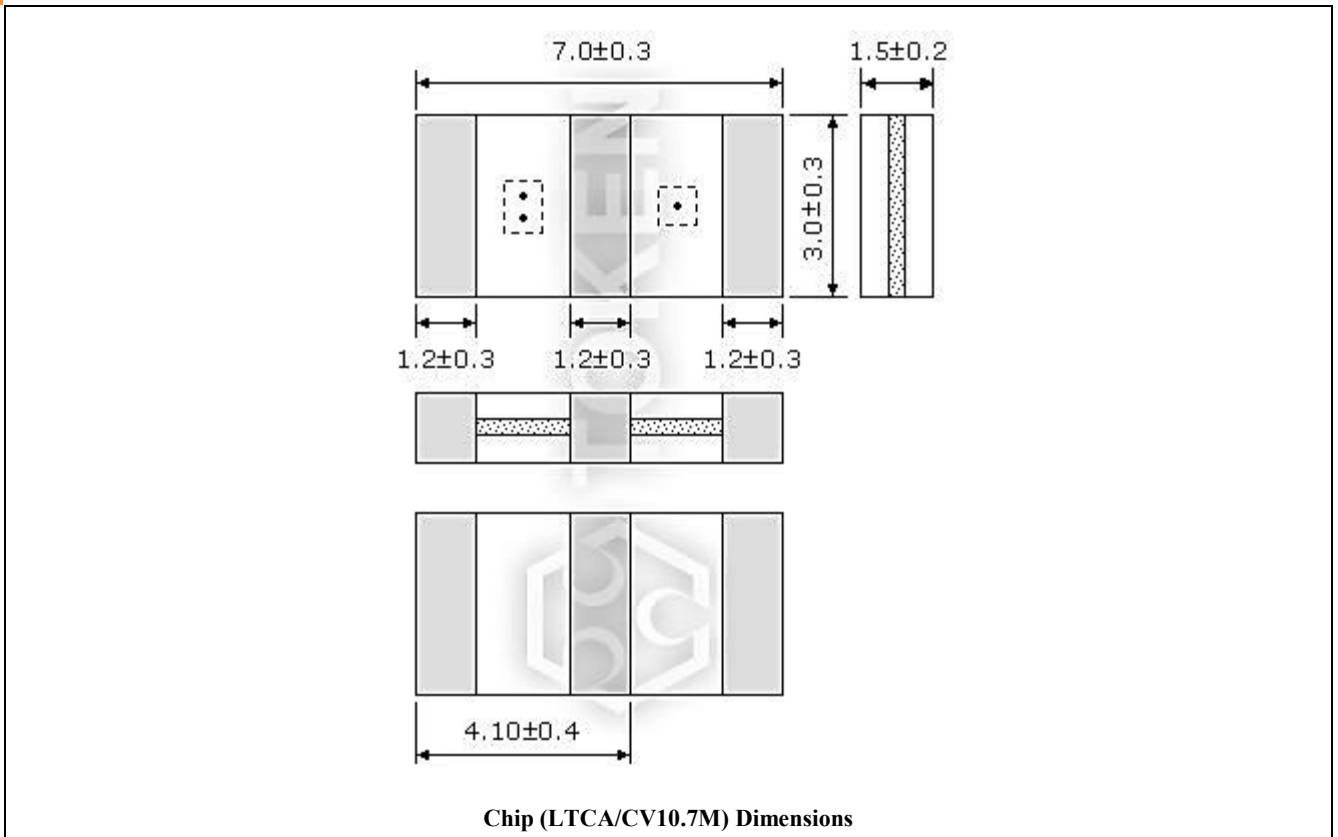
The dimensions of LTCA/CV10.7M ceramic chip filter is small as $7.0\pm 0.3 \times 3.0\pm 0.3$ mm with low profile 1.5 ± 0.2 mm. Insertion Loss max(dB) is from 3.0 db ~ 10 db, Spurious Attenuation (9~12 MHz) min(dB) 30 db ~ 35 db with Input/Output Impedance: 330Ω . Various bandwidths are available. Select a suitable type in accordance with the desired selectivity.

The LTCA/CV10.7M series conform to the RoHS directive. 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](http://www.token.com.tw)" for more information.



▶ Dimensions

Dimensions (Unit: mm) (LTCA/CV10.7M)



▶ Technical Characteristics

Technical Characteristics (LTCA/CV10.7M)

Part Number	3dB Band Width (kHz)	20dB Band Width (kHz) max	Insertion Loss (dB)max	Spurious Attenuation (9-12MHz)(dB)min
LTCA10.7MJ	150±40	430	10.0	30
LTCV10.7MJ	150±40	380	5.5±2.0	35
LTCA10.7MA5	280±50	650	6.0	30
LTCV10.7MA5	280±50	590	3.0±2.0	35
LTCA10.7MS2	230±50	570	6.0	30
LTCV10.7MS2	230±50	510	3.5±2.0	35
LTCA10.7MS3	180±40	520	6.0	30
LTCV10.7MS3	180±40	470	4.0±2.0	35

● Input/Output Impedance: 330Ω

▶ Order Codes

Order Codes (LTCA/CV10.7M)

LTCV10.7MA5	TR
Part Number	Package (TR:Taping Reel)

▶ 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.