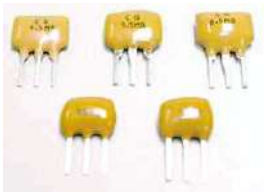
EUROQUARTZ

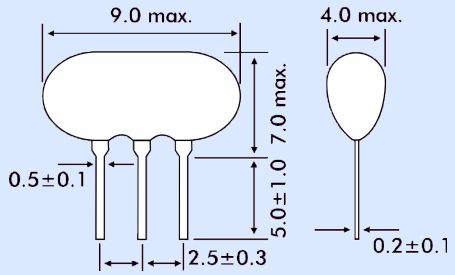
CERAMIC FILTER LTS_MCB AUDIO IF APPLICATIONS

- **Ceramic discriminators for AM applications:**
- **SMD type for reflow soldering (JTBC)**
- **Leaded type (JTBM)**



RoHS REACH COMPLIANCE

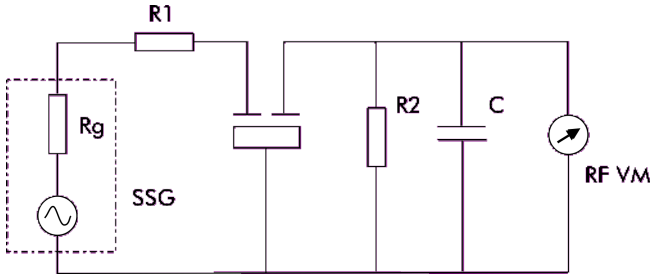
LTS_MCB



ELECTRICAL SPECIFICATION

Nominal Frequency:	4.5, 5.5, 6.0 or 6.50MHz
3dB Bandwidth:	±70kHz min.
Insertion Loss:	6.0dB max.
20dB Bandwidth:	350kHz max.
Spurious Loss 0~6.5MHz:	30dB min.
Rated Voltage:	DC 50V (I minute)
Insulation Resistance:	100MΩ min.
Temperature Characteristics (-25° to +85°C):	±100ppm/°C max.
Storage Temperature:	-40°C to +85°C
Input/Output Impedance:	470Ω

TEST CIRCUIT



Fo	R2
4.5MHz	1kΩ
5.5MHz	600Ω
6.0MHz	470Ω
6.5MHz	470Ω

PART NUMBERS

Frequency	Part Number
4.5MHz	LTS4.5MCB
5.0MHz	LTS5.5MCB
6.0MHz	LTS6.0MCB
6.5MHz	LTS6.5MCB

PHYSICAL CHARACTERISTICS

Random Drop Test:	Filter performance shall be tested after 3 x random drop from 1.0metre onto concrete floor. No visible damage should be observed and the measured values shall be within specification.
Vibration:	Filte shall be measure after being applied with vibration, amplitude 1.5mm, frequency 10Hz to 55Hz for 2 hours in each of the 3 perpendicular planes. The measured electrical values shall be within specification.
Resistance to Solder Heat:	Lead terminals are immersed up to 2.0mm from the filter body in a solder bath (350° ±10°C for 5±0.5 seconds). The filter should be measured after being in room temperature for 1 hour.
Solderability:	Lead terminals are immersed in resin for 5 seconds then immersed in a soldering bath at 250°C±5°C for 3 seconds ±0.5 seconds. A minimum of 95% of lead terminals surface shall be covered with solder.

ENVIRONMENTAL SPECIFICATION

High Temperature:	After being placed in a chamber at +85°±2°C for 96 hours and left for one hour at room temperature the measured values are to be within specification.
Low Temperature:	After being placed in a chamber at -25°±2°C for 96 hours and left for one hour at room temperature the measured values are to be within specification.
Humidity:	After being placed in a chamber with a humidity of 90~95% RH and a temperature of +40° for 96 hours and left for one hour at room temperature the measured values are to be within specification.
Heat Shock:	After being kept at room temperature the filter shall be placed at a temperature of -25°C. After 30 minutes at the temperature the filter is immediately placed at a temperature of +85°C. After 30 minutes the filter is again placed at a temperature of -25°C. This is one cycle. The filter is subjected to 5 cycles. After one hour at room temperature the measured values are to be within specification.

EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE
Tel: +44 (0)1460 230000 Fax: +44 (0)1460 230001 info@euroquartz.co.uk www.euroquartz.co.uk