

Ceramic Resonators (陶瓷谐振器)

DIP Type

ZTT ZTTLS ZTWS ZTTRS

Low Profile

Low Cost

DIP Type

Frequency Range

1 MHz~60 MHz

Features

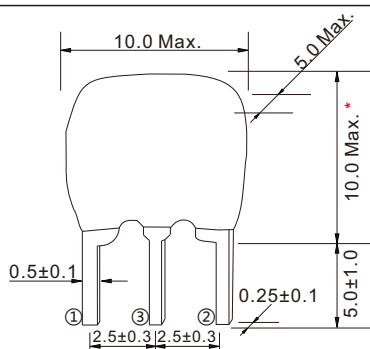
- All (ZTT) are epoxy coated and completely washable
- Resistant to damage from impact and vibration
- Low cost
- Excellent temperature stability ($\pm 0.3\%$)
- DIP type package
- Frequency range from 1.79MHz to 60MHz
- Can replace Murata CST series ceramic resonators
- Applications: Security, Consumer device, TV, Radio, Receiver, Automotive, etc.



Standard Specifications

Part Number	Frequency Range (MHz)	Frequency Accuracy (at 25°C)	Frequency Stability	Operating Temperature	Aging for Ten Years (%)
ZTT□MG	1.79~6.00	$\pm 0.5\%$	$\pm 0.3\%$	-20~+80°C	± 0.3
ZTTWS□MG	1.79~6.00	$\pm 0.5\%$	$\pm 0.3\%$	-20~+80°C	± 0.3
ZTTLS□MG	3.00~8.00	$\pm 0.5\%$	$\pm 0.3\%$	-20~+80°C	± 0.3
ZTTRS□MG	3.00~10.00	$\pm 0.5\%$	$\pm 0.3\%$	-20~+80°C	± 0.3
ZTT□MT	6.00~13.00	$\pm 0.5\%$	$\pm 0.3\%$	-20~+80°C	± 0.3
ZTT□MX	12.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-20~+80°C	± 0.3

Dimensions [Unit: mm]

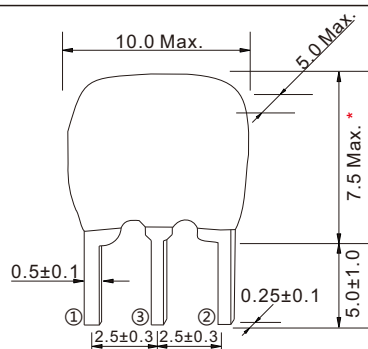


ZTT...MX

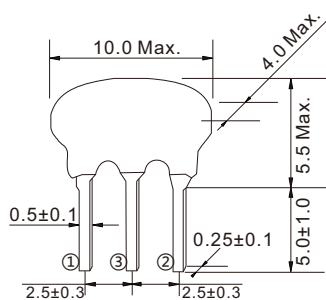
Pin Connections

Pin No.	Connection
①	Input
②	Output
③	GND

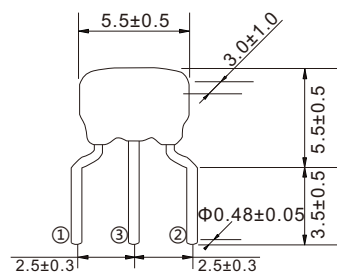
* MG: 7.5 Max.
MT: 10.0 Max.
MX: 32~60MHz 6.5Max.
24~32MHz 7.5Max.
12~24MHz 10.0Max.



ZTTLS...MG



ZTTWS



ZTTRS