

# Ceramic Resonator

ZTT Series SMD Ceramic Resonator

2MHz~60MHz

Package: SMD Type



## Features

- SMD ZTT series 3-pin ceramic resonators, more size, more spec
- Traditional standard ceramic parts
- Wide frequency range: 2MHz~60MHz
- Low profile, reflow solderable, excellent solderability.
- Robust & Reliable
- Application for security, Car accessories, UPS, Power supply, PDAs, PC peripherals, Digital cameras, Camcorders, etc.
- RoHS Compliant

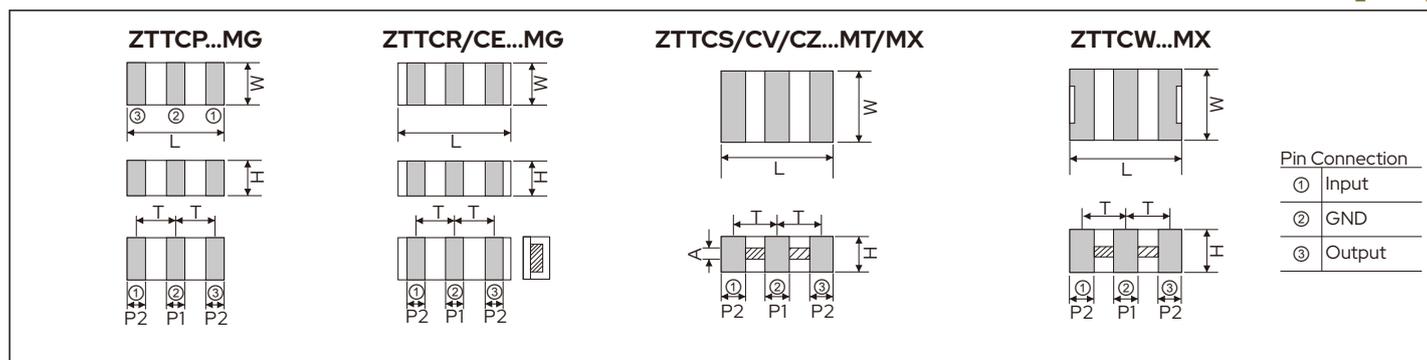


## Standard Specifications

Part Number	Frequency Range (MHz)	Frequency Accuracy (@25°C)	Frequency Stability (%)	Operating Temperature	Aging @10 Year (%)
ZTTCP...MG	2MHz~12MHz	±0.5%	±0.2%	-25~+85°C	±0.1%
ZTTCS...MX/MT	6MHz~60MHz	±0.5%	±0.4%	-25~+85°C	±0.3%
ZTTCR...MG	4MHz~8MHz	±0.5%	±0.3%	-25~+85°C	±0.3%
ZTTCV...MT/MX	8MHz~60MHz	±0.5%	±0.4%	-25~+85°C	±0.3%
ZTTCE...MG	8MHz~12MHz	±0.5%	±0.3%	-25~+85°C	±0.3%
ZTTCW...MX	20MHz~60MHz	±0.5%	±0.3%	-25~+85°C	±0.3%
ZTT CZ...MX	24MHz~60MHz	±0.5%	±0.3%	-25~+85°C	±0.3%

## Dimensions

[mm]



Pin Connection

①	Input
②	GND
③	Output

Part Number	Dimensions (Unit: mm)					
	L	W	H	P1	P2	T
ZTTCP...MG	6.0±0.2	3.0±0.2	2.0 max	1.2±0.2	1.2±0.2	2.4±0.2
ZTTCS...MX/MT	4.7±0.2	4.1±0.2	(1.2±A)±0.2	1.0±0.2	0.8±0.2	1.95±0.2
ZTTCR...MG	4.5±0.2	2.0±0.2	1.2 max.	0.8±0.2	0.8±0.2	1.5±0.2
ZTTCV...MT/MX	3.7±0.2	3.1±0.2	(1.0±A)±0.2	0.9±0.2	0.7±0.2	1.5±0.2
ZTTCE...MG	3.2±0.2	1.3±0.2	1.0 max.	0.4±0.2	0.4±0.2	1.2±0.2
ZTTCW...MX	2.5±0.2	2.0±0.2	1.2 max.	0.5±0.2	0.4±0.2	1.0±0.2
ZTT CZ...MX	2.2±0.2	1.8±0.2	1.2 max.	0.4±0.2	0.5±0.2	0.85±0.2

Note: A stands for thickness of the ceramic element, which varies with the frequency. The range of the thickness is 0.1 to 0.7mm.