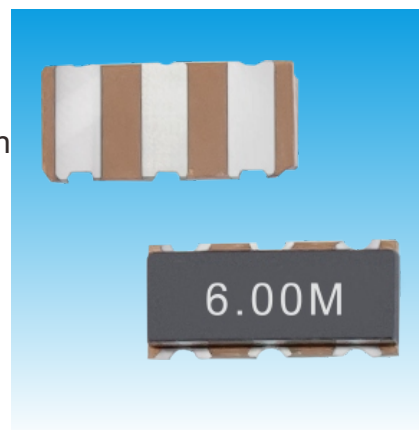


Features

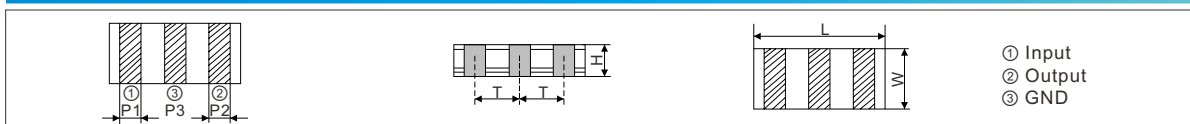
- Surface mount package ceramic resonator
- Resistant to damage from impact and vibration
- Low cost
- Excellent temperature stability ($\pm 0.3\%$)
- Automatic mounting and reflow soldering
- Applications: Security, Consumer device, TV, Radio, Receiver, etc.



Standard Specification

Part Number	Frequency Range (MHz)	Frequency Accuracy (at 25°C)	Frequency Stability	Operating Temperature	Aging for Ten Years (%)
ZTTCC...MG	2.0~8.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCR...MG	4.0~8.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCE...MG	8.00~12.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCS...MT	6.00~13.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCV...MT	8.00~13.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCS...MX	13.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCV...MX	16.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCW...MX	20.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCZ...MX	24.00~45.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3
ZTTCP...MG	2.00~12.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	± 0.3

Dimensions [mm]



Part Number	Size Code	Size (mm)					
		L	W	H	P1	P2	T
ZTTCC..MG		7.4 \pm 0.2	3.4 \pm 0.2	1.8 \pm 0.2	1.2 \pm 0.2	1.2 \pm 0.2	2.5 \pm 0.2
ZTTCR..MG		4.5 \pm 0.2	2.0 \pm 0.2	1.2 Max.	0.8 \pm 0.2	0.8 \pm 0.2	1.5 \pm 0.2
ZTTCE..MG		3.2 \pm 0.2	1.3 \pm 0.2	1.0 Max.	0.4 \pm 0.2	0.4 \pm 0.2	1.2 \pm 0.2
ZTTCS..MT/MX		4.7 \pm 0.2	4.1 \pm 0.2	(1.2+A) \pm 0.2	1.0 \pm 0.2	0.8 \pm 0.2	1.95 \pm 0.2
ZTTCV..MT/MX		3.7 \pm 0.2	3.1 \pm 0.2	(1.0+A) \pm 0.2	0.9 \pm 0.2	0.7 \pm 0.2	1.0 \pm 0.2
ZTTCW..MX		2.5 \pm 0.2	2.0 \pm 0.2	1.2 Max.	0.5 \pm 0.2	0.4 \pm 0.2	1.0 \pm 0.2
ZTTCZ..MX		2.2 \pm 0.2	1.8 \pm 0.2	1.2 Max.	0.4 \pm 0.2	0.5 \pm 0.2	0.85 \pm 0.2
ZTTCP..MG		6.0 \pm 0.2	3.0 \pm 0.2	1.8 \pm 0.2 1.5 \pm 0.2 1.7 \pm 0.2	1.2 \pm 0.2	1.2 \pm 0.2	2.5 \pm 0.2

Note: A stands for thickness of the ceramic element, which varies with the frequency. The range of the thickness difference is 0.1 to 0.7mm
No middle terminal for ZTA series