

### Features

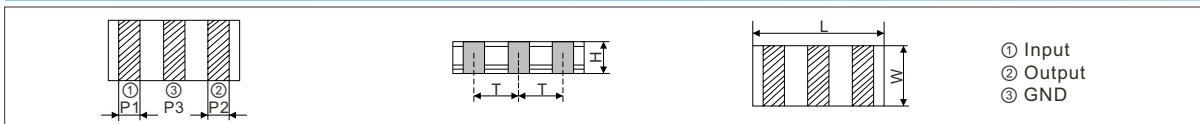
- Surface mount package ceramic resonator
- Resistant to damage from impact and vibration
- Low cost
- Excellent temperature stability ( $\pm 0.3\%$ )
- Automatic mounting and reflow soldering
- Applications: *Security, Consumer device, TV, Radio, Receiver, etc.*



### Standard Specifications

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	$\pm 0.3$
ZTTCR...MG	4.0~8.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCE...MG	8.00~12.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCS...MT	6.00~13.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCV...MT	8.00~13.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCS...MX	13.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCV...MX	16.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCW...MX	20.00~60.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTT CZ...MX	24.00~45.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$
ZTTCP...MG	2.00~12.00	$\pm 0.5\%$	$\pm 0.3\%$	-25~+80°C	$\pm 0.3$

### 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
ZTT CZ..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