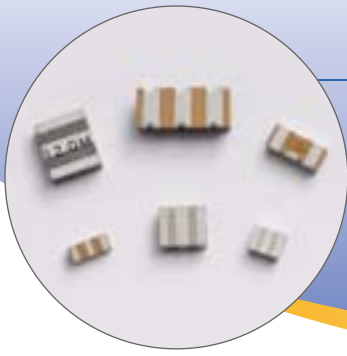


# Ceramic Resonator

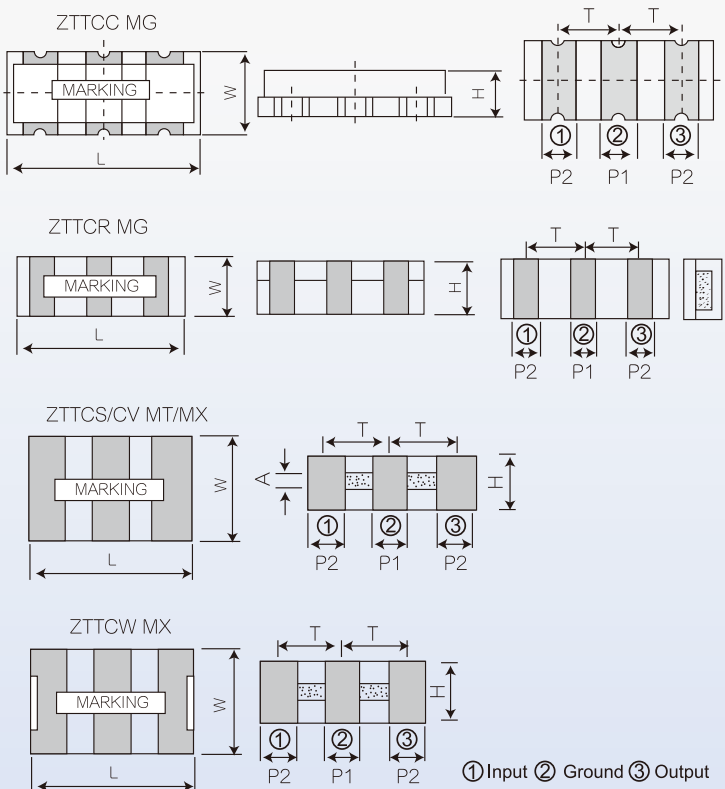
Built-in capacitor, ZTTC Series



## SPECIFICATION

MODEL		ZTTC MG	ZTTCR MG	ZTTC MT	ZTTCV MT	ZTTC MX	ZTTCV MX	ZTTCW MX
Nominal Frequency	MHz	2.00-8.00	4.00-8.00	6.00-13.00	8.00-13.00	13.01-60.00	16.00-60.00	20.00-60.00
Frequency Tolerance ( 25°C )	%	±0.5						
Frequency Stability (-20~+80°C)	%	±0.3	±0.3	± 0.4	±0.4	±0.3	±0.3	±0.3
Operating Temperature Range	°C	-20 to +80						
Storage Temperature Range	°C	-55 to +85						
Aging for 10 years	%	±0.3						

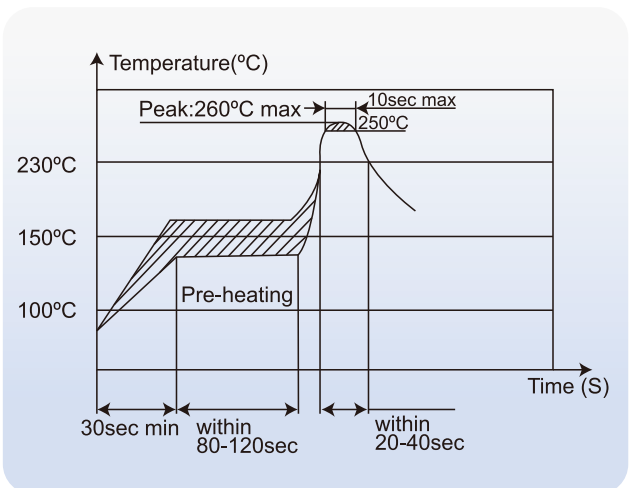
## Dimension



Part Number	L	W	H	P1	P2	T
ZTTC MG	7.4±0.2	3.4±0.2	1.8±0.2	1.2±0.2	1.2±0.2	2.5±0.2
ZTTCR MG	4.5±0.2	2.0±0.2	1.2max.	0.8±0.2	0.8±0.2	1.5±0.2
ZTTCV MT/MX	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
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
ZTTCW MX	2.5±0.2	2.0±0.2	1.2max.	0.5±0.2	0.4±0.2	1.0±0.2

\* A stands for thickness, which varies with the frequency.  
The range of the thickness is 0.1 to 0.7mm.

## Soldering Reflow Profile



## Test Circuit for MOS IC

