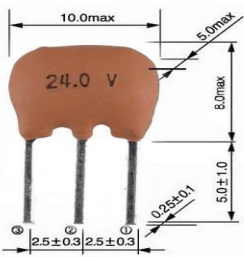


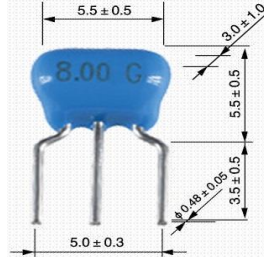
ZTT - DIP Series of Ceramic Resonator

1.79 - 60.00MHz

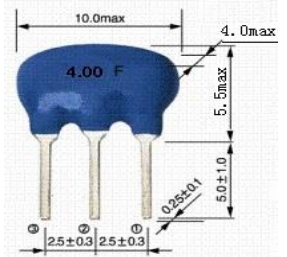
ZTTLS□MT,MX Series



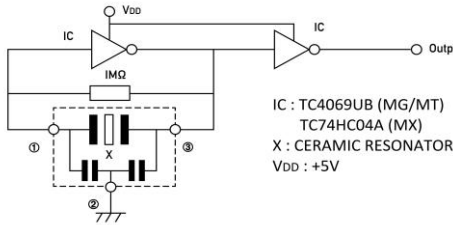
ZTTRS□MG,MX Series



ZTWS□MG Series



● TEST CIRCUIT FOR MOS IC



● TECHNICAL CHARACTERISTICS

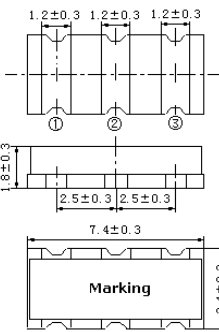
Part Number	Frequency Range (MHz)	Frequency Accuracy (25°C)	Stability Temperature (-20~+80°C) max.(%)	Operating Temperature (°C)	Aging For Ten Year (%)
ZTTLS□MT	6.00 - 13.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTTLS□MX	12.00 - 60.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTTRS□MG	8.00 - 12.50	±0.5	±0.3	-25 ~ +85	±0.3
ZTWS□MG	1.79 - 6.00	±0.5	±0.3	-25 ~ +85	±0.3

ZTT - SMD Series of Ceramic Resonator

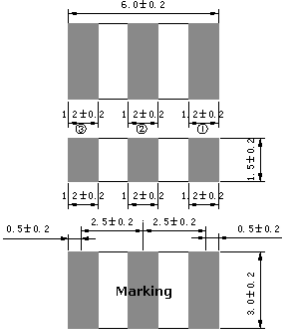
1.80 - 60.00MHz

● DIMENSIONS (UNIT : mm)

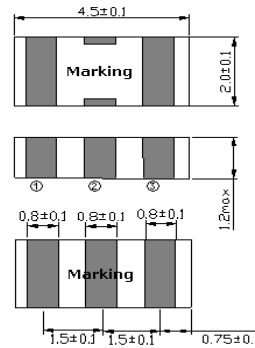
ZTCC□MG Series



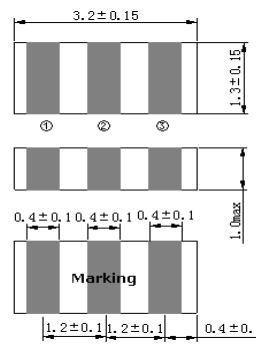
ZTCP□MG Series



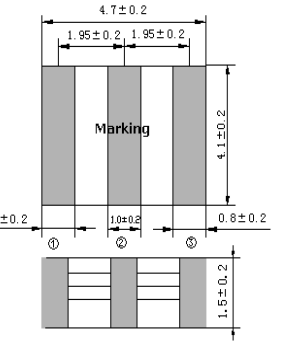
ZTCR□MG Series



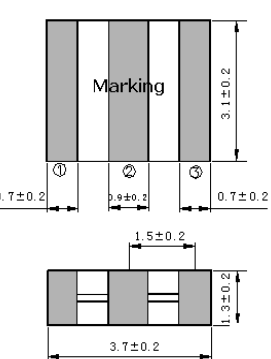
ZTCE□MG Series



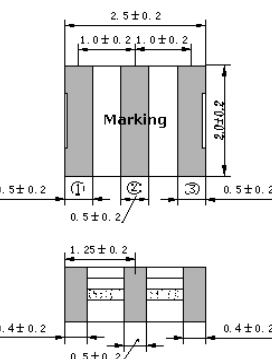
ZTCS□MT/MX Series



ZTTCV□MT/MX Series

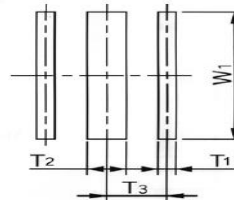


ZTTCW□MX Series



● RECOMMENDED LAND PATTERN

- ① Input
- ② Ground
- ③ Output



Part Number	DIMENSIONS (UNIT : mm)			
	T1	T2	T3	W1
ZTCC□MG	1.2±0.2	1.2±0.2	2.5±0.2	3.4±0.2
ZTCP□MG	1.2±0.2	1.2±0.2	2.4±0.2	3.0±0.2
ZTCR□MG	0.8±0.2	0.8±0.2	1.5±0.2	2.0±0.2
ZTCE□MG	0.4±0.2	0.4±0.2	1.2±0.2	1.3±0.2
ZTCS□MT/MX	0.8±0.2	0.8±0.2	1.95±0.2	4.1±0.2
ZTTCV□MT/MX	0.7±0.2	0.7±0.2	1.5±0.2	3.1±0.2
ZTTCW□MX	0.4±0.2	0.4±0.2	1.0±0.2	2.0±0.2

● TECHNICAL CHARACTERISTICS

Part Number	Frequency Range (MHz)	Frequency Accuracy (25°C)	Stability Temperature (-20~+85°C) max. (%)	Operating Temperature (°C)	Aging For Ten Year (%)
ZTCC□MG	1.80 - 8.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTCP□MG	2.00 - 12.00	±0.5	±0.2	-40 ~ +125	±0.1
ZTCR□MG	4.00 - 8.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTCE□MG	8.00 - 12.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTCS□MT	6.00 - 13.00	±0.5	±0.4	-25 ~ +85	±0.3
ZTTCV□MT	8.00 - 13.00	±0.5	±0.4	-25 ~ +85	±0.3
ZTCS□MX	13.01 - 60.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTTCV□MX	16.00 - 60.00	±0.5	±0.3	-25 ~ +85	±0.3
ZTTCW□MX	20.00 - 60.00	±0.5	±0.3	-25 ~ +85	±0.3