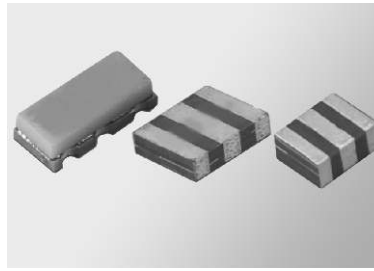


# Resonator SMD, 3 Pin

## Features:

- Built-in capacitor
- Low cost
- Consumer electronics
- Microprocessor systems
- Excellent for automotive applications



**ZTTCR/MG**  
**ZTTCV/MT**  
**ZTTCV/MX**  
**ZTTCW/MX**

Specifications					
Part	ZTTCR/MG	ZTTCV/MT	ZTTCV/MX		ZTTCW/MX
Frequency range (MHz)	4.0 ~ 8.0	6.0 ~ 13.0	13.01 ~ 40.0	40.01 ~ 50.0	20.0 ~ 50.0
Frequency accuracy (25°C)	+/-0.5%	+/-0.5%	+/-0.5%		+/-0.5%
Temp. stability (-20°C ~ +80°C)	+/-0.3%	+/-0.4%	+/-0.4%		+/-0.3%
Build in load capacitance (pF)	C1	10	10	5	6
	C2	10	22	10	5
Aging (over 10 years)	+/-0.3%	+/-0.3%	+/-0.3%		+/-0.3%

### ZTTCR

Recommended land pattern

### ZTTCV

Recommended land pattern

### ZTTCW

Recommended land pattern

### Test circuit

1. Input  
2. Ground  
3. Output

C1 C2 : as listed  
 IC : 1/6 4069UBP x 2 (MG ; MT)  
 1/6 74HCU04 x 2 (MX)  
 X : Ceramic resonator

Dimensions in mm

Order key						
Part	Frequency	Type/Package	Frequency tolerance	Temperature tolerance	Temperature range	Internal load capacitance
R	- 50.00000M	- ZTTCW/MX	- 0.5	- 0.3	- H	- 6/6
R=Resonator	K=KHz M=MHz	ZTTCR/MG ZTTCV/MT ZTTCV/MX ZTTCW/MX	+/-KHz or % (25°C)	+/-% (Temp. range)	H=-20°C ~ +80°C	pF C1/C2

Remarks: All specifications subject to change without notice!