

# Ceramic Trimmer Capacitors

## TZB4 Series

### Features

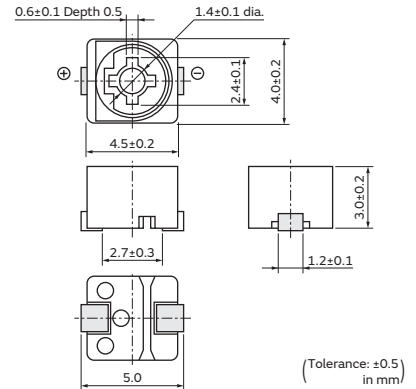
1. Miniature rectangular shape:  
4.0(W)x4.5(L)x3.0(H)mm.
2. Color coded case facilitates identification of capacitance range.
3. Designed for automatic placement in surface mount applications.
4. Designed to withstand flux baths and solder baths (with cover film type).
5. Can be temporarily attached to PCB with adhesives (Terminal style A and B).
6. Can be reflow and flow (with cover film type) soldering method.
7. Stable characteristics over a wide frequency range.  
(Resonant frequency: 1000MHz min. / 6pF)

### Applications

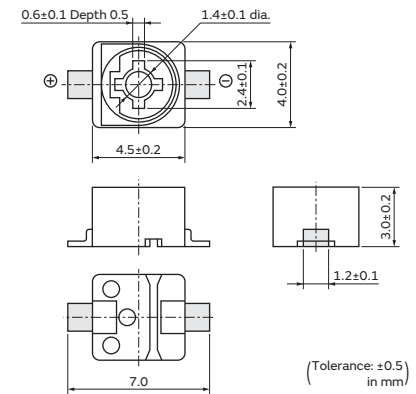
1. Car audio systems
2. Hybrid ICs
3. Remote keyless entry systems
4. Surveillance cameras
5. Burglarproof devices
6. Entry phone



A Type



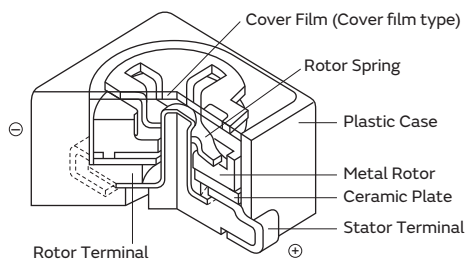
B Type



Part Number	C min. (max.) (pF)	C max. (pF)	TC	Q	Rated Voltage	Withstanding Voltage	Stator/Case Color
TZB4Z030□□10	1.4	3.0 +50/-0%	NP0±200ppm/°C	300min. at 1MHz, Cmax	100Vdc	220Vdc	Brown
TZB4Z060□□10	2.0	6.0 +50/-0%	NP0±200ppm/°C	500min. at 1MHz, Cmax.	100Vdc	220Vdc	Blue
TZB4Z100□□10	3.0	10.0 +50/-0%	NP0±300ppm/°C	500min. at 1MHz, Cmax.	100Vdc	220Vdc	White
TZB4R200□□10	4.5	20.0 +50/-0%	N750±400ppm/°C	500min. at 1MHz, Cmax	100Vdc	220Vdc	Red
TZB4P300□□10	6.5	30.0 +50/-0%	N1200±500ppm/°C	300min. at 1MHz, Cmax	100Vdc	220Vdc	Green
TZB4P400□□10	8.5	40.0 +50/-0%	N1200±500ppm/°C	300min. at 1MHz, Cmax	100Vdc	220Vdc	Yellow
TZB4Z250□□10	4.0	25.0 +100/-0%	NP0±300ppm/°C	300min. at 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking
TZB4R500□□10	7.0	50.0 +100/-0%	N750±300ppm/°C	300min. at 1MHz, Cmax	50Vdc	110Vdc	Black+Marking

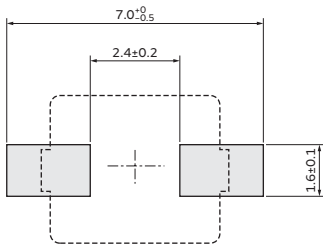
Insulation Resistance: 10000M ohm Torque: 1.5 to 9.8mNm Operating Temperature Range: -25 to +85°C  
 First blank: Terminal Type Second blank: Cover film codes (A: not provided, B: provided)  
 rex. TZB4Z100AB10: Terminal Type is A, and Cover film is provided.

### Construction



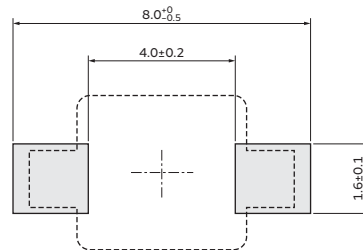
**Land Pattern/Mounting Holes**

**A Type**



(in mm)

**B Type**

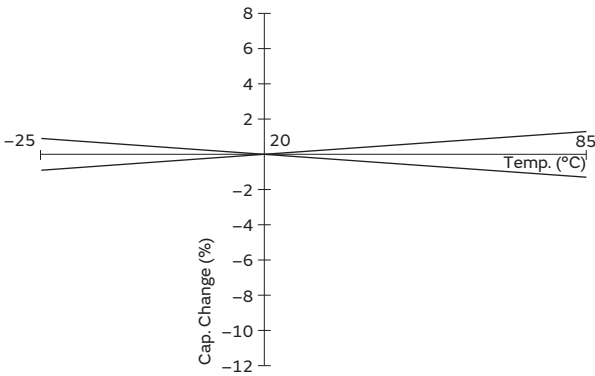


(in mm)

**Temperature Characteristics**

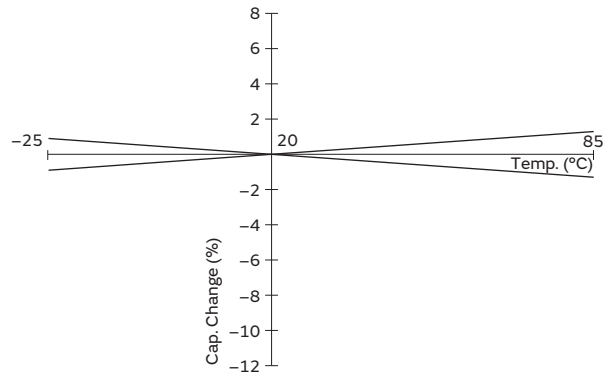
**TZB4Z030**

Z030 (NP0±200 ppm/°C)



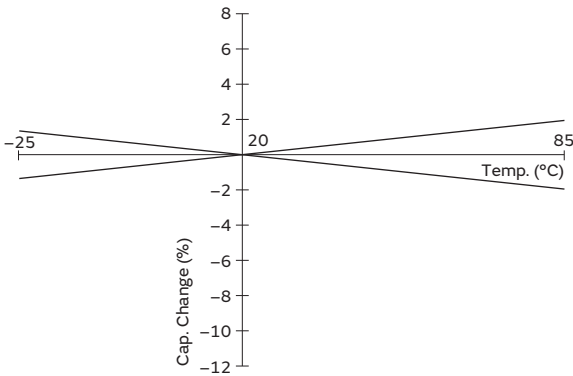
**TZB4Z060**

Z060 (NP0±200 ppm/°C)



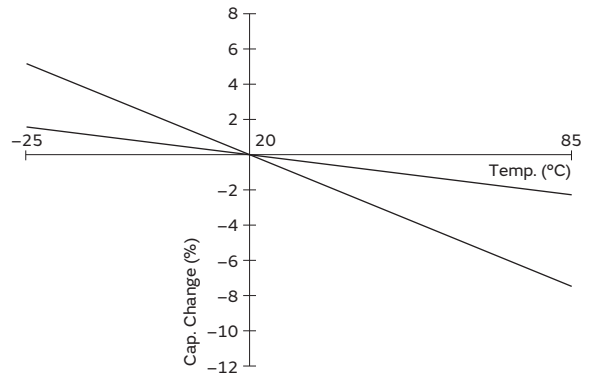
**TZB4Z100**

Z100 (NP0±300 ppm/°C)



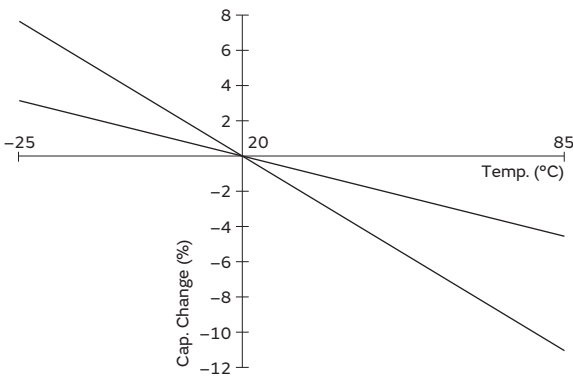
**TZB4R200**

R200 (N750±400 ppm/°C)



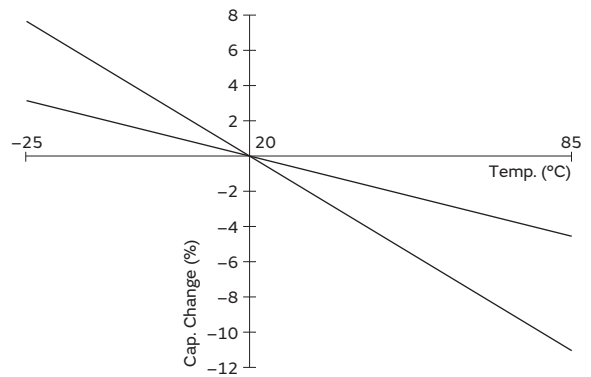
**TZB4P300**

P300 (N1200±500 ppm/°C)



**TZB4P400**

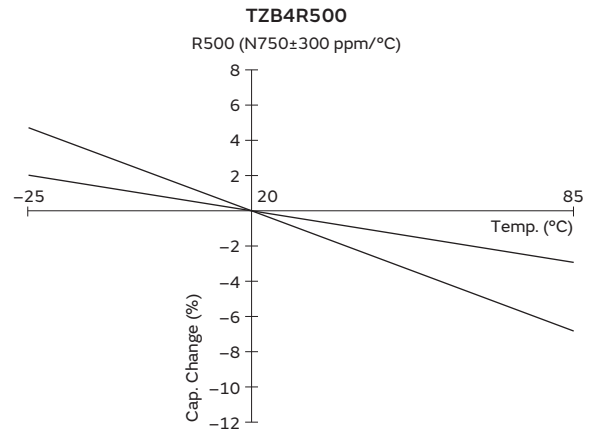
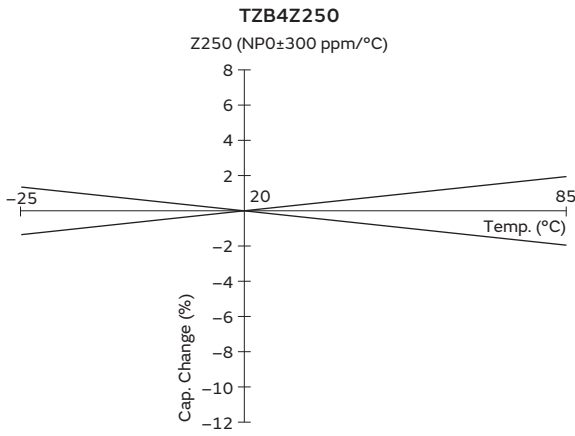
P400 (N1200±500 ppm/°C)



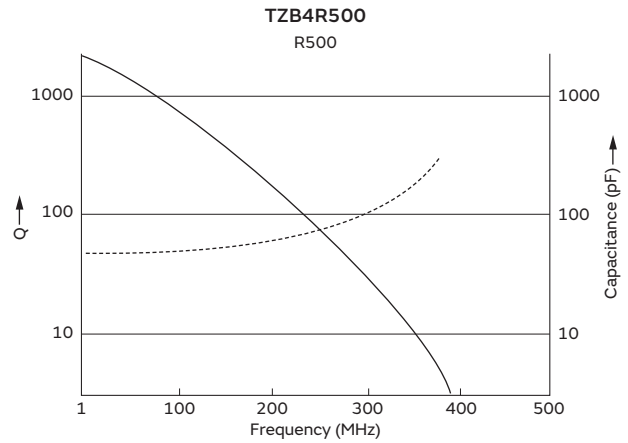
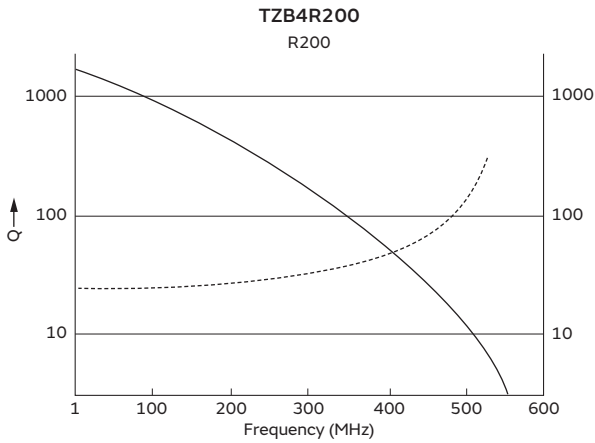
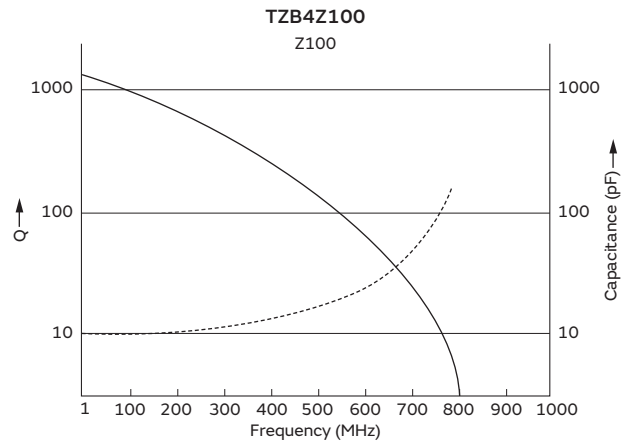
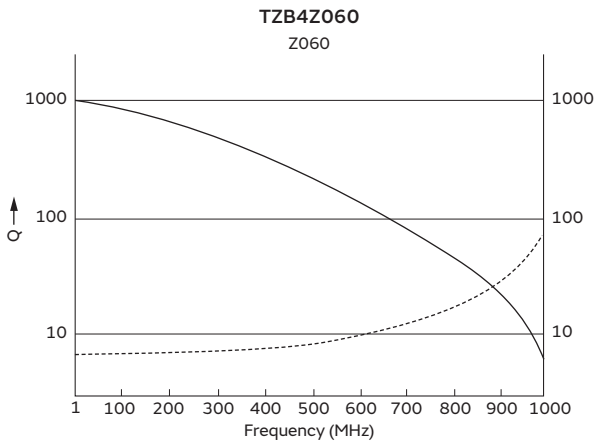
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### Temperature Characteristics



### Frequency Characteristics



5