

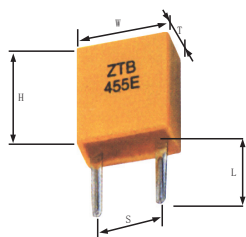
ZTB/ZTB□Y SERIES OF CERAMIC RESONATOR (DIP AND SMD TYPE)

ZTB SERIES OF CERAMIC RESONATOR (DIP TYPE)

■ TECHNICAL CHARACTERISTICS

Part Number	Frequency Accuracy (25℃)	Resonant Impedance (Ω)	Frequency Stability	Operating Temperature	Aging For Ten Years	Load Capacitance	
						C1 (pF)	
ZTB190~249D	±1kHz	≤20	±0.3%	-20~+80℃	±0.3%	330	
ZTB250~374D	±1kHz	≤20	±0.3%	-20~+80℃	±0.3%	220	
ZTB375~429P	±2kHz	≤20	±0.3%	-20~+80℃	±0.3%	120	
ZTB430~509E	±2kHz	≤20	±0.3%	-20~+80℃	±0.3%	100	
ZTB510~699P	±2kHz	≤30	±0.3%	-20~+80℃	±0.3%	100	
ZTB700~999J	±0.5%	≤70	±0.3%	-20~+80℃	±0.3%	100	
ZTB1000~1250J	±0.5%	≤100	±0.3%	-20~+80℃	±0.3%	100	

■ OUTLINE DIMENSIONS (mm)



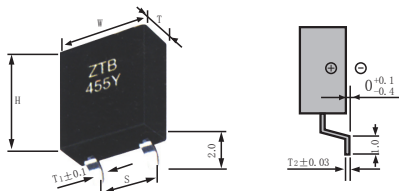
Frequency Range (kHz)	Width W (mm)	Thickness T (mm)	Height H (mm)	Lead Space S (mm)	Lead Length L (mm)
190~249	13.5	3.8	14.7	10.0	8.0
250~374	11.0	3.8	12.2	7.7	7.0
375~400	7.9	3.6	9.3	5.0	7.7
401~699	7.0	3.5	9.0	5.0	4.0 (6.0)
700~1250	5.1	2.3	6.3	2.5	4.0

ZTB□ SERIES OF CERAMIC RESONATOR (SMD TYPE)

■ TECHNICAL CHARACTERISTICS

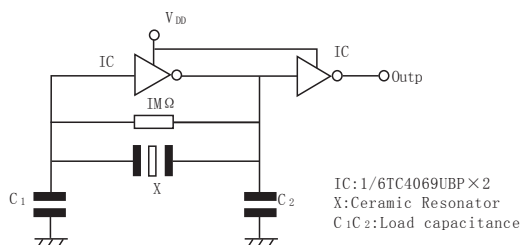
Part Number	Frequency Accuracy (25℃)	Resonant Impedance (Ω)	Frequency Stability	Operating Temperature	Aging For Ten Years	Load Capacitance	
						C1 (pF)	
ZTB375~429Y	±2kHz	≤20	±0.3%	-20~+80℃	±0.3%	120	
ZTB430~509Y	±2kHz	≤20	±0.3%	-20~+80℃	±0.3%	100	
ZTB510~699Y	±2kHz	≤30	±0.3%	-20~+80℃	±0.3%	100	
ZTB700~999Y	±0.5%	≤50	±0.3%	-20~+80℃	±0.3%	100	
ZTB1000~1250Y	±0.5%	≤100	±0.3%	-20~+80℃	±0.3%	100	

■ OUTLINE DIMENSIONS (mm)



Frequency Range (kHz)	Width W (mm)	Thickness T (mm)	Height H (mm)	Lead Space S (mm)	T ₁	T ₂
375~429	8.0	3.5	9.0	5.0	1.1	0.15
430~509	7.5	3.3	8.5	5.0	1.1	0.15
510~699	7.0	3.0	8.5	5.0	1.1	0.15
700~1250	5.0	2.2	6.0	2.5	0.8	0.12

■ TEST CIRCUIT (ZTB/ZTB□Y SERIES)



■ CHARACTERISTICS (ZTB/ZTB□Y SERIES)

