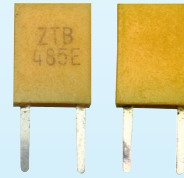


PRODUKT-INFO

ZTB SERIES RESONATOR

FEATURES

1. Low profile.
2. Low frequency.
3. Low cost.
4. High stability.
5. Small compact size.
6. Plastic package.



ELECTRICAL SPECIFICATIONS

Model	ZTB ... D	ZTB ... P	ZTB ... E	ZTB ... P	ZTB ... J		
Frequency Range	190 to 249 kHz	250 to 374 kHz	375 to 400 kHz	401 to 509 kHz	510 to 699 kHz	700 to 999 kHz	1000 to 1250 kHz
Frequency Accuracy (at +25°C) (%)	±1.0 kHz	±1.0 kHz	±2.0 kHz	±2.0 kHz	±2.0 kHz	±0.5%	±0.5%
Stability in Temperature -20°C to +80°C (%)	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
Aging for 10 years (%)	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
Resonator Resistance (Ω) max.	20	20	20	20	30	70	100
Load Capacitance C1	330 pF	220 pF	120 pF	100 pF	100 pF	100 pF	100 pF
Load Capacitance C2	470 pF	470 pF	470 pF	100 pF	100 pF	100 pF	100 pF

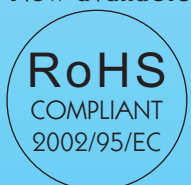
FREQUENCY RANGE	DIMENSIONS (UNITS: mm)				
	L	W	H	T / Thickness	S / Lead Space
190 to 249 kHz	8.0	13.5	14.7	3.8	10.0
250 to 374 kHz	7.0	11.0	12.2	3.8	7.7
375 to 400 kHz	7.7	7.9	9.3	3.6	5.0
401 to 699 kHz	4.0 / 6.0	7.0	9.0	3.5	5.0
699 to 1250 kHz	3.5 / 5.0	5.2	6.8	2.8	2.5
1000 kHz	4.0	5.1	6.3	2.3	2.5

Test Circuit for MOS IC

X: Ceramic Resonator
V_{DD}: +5V
IC: 1/6TC4069UBP×2
C1/C2: Load Capacitance

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All specifications subject to change without notice.