mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Low Frequencies

- RoHS Compliant (Note 7 Exemption)
- Extended temperature range.

ZTB/ZTBF SERIES CERAMIC RESONATOR

The ZTB Series ceramic resonator offers low frequency and extended temperature range capabilities. The ZTBF option is a formed lead version for SMD applications.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PART NUMBER *	FREQUENCY RANGE (KHz)	FREQUENCY ACCURACY @ 25°C (%)	FREQUENCY STABILITY -20 ~ +80°C (%)	AGING FOR TEN YEARS (%)	ESR (Ω) MAX.	C1 (pF)	C2 (pF)
ZTBood	190 ~ 249	± 1.0 KHz	± 0.3	± 0.5	20	330	470
ZTBood	250 ~ 374	± 1.0 KHz	± 0.3	± 0.5	20	220	470
ZTBoooP	375 ~ 429	± 2.0 KHz	± 0.3	± 0.5	20	120	470
ZTBoooE	430 ~ 449	± 2.0 KHz	± 0.3	± 0.5	20	100	100
ZTBoooE	450 ~ 509	± 2.0 KHz	± 0.3	± 0.5	20	100	100
ZTBoooP	510 ~ 699	± 2.0 KHz	± 0.3	± 0.5	35	100	100
ZTBoooJ	700 ~ 999	± 0.5%	± 0.3	± 0.5	70	100	100
ZTBoodMJ	1000 ~ 1230	± 0.5%	± 0.3	± 0.5	100	100	100

Complete part number to include frequency i.e. ZTB500E (500=500 KHz)

PACKAGE DIMENSIONS (mm)

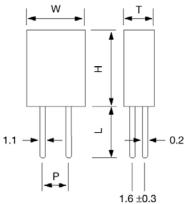
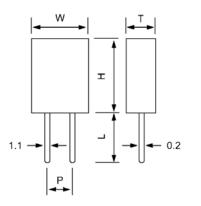


Figure 1) 190 ~ 249 KHz Front and Side Views

FREQUENCY	DIMENSIONS (mm)					
RANGE (KHz)	W	Т	Н	Р	L	
190-249	13.5	3.8	14.7	10.0	8.0	



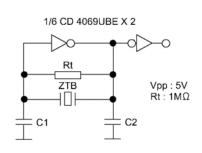


Figure 3) Test Circuit

Figure 2) 250 ~ 1230 KHz, Front and Side Views

FREQUENCY	DIMENSIONS (mm)						
RANGE (KHz)	W	Т	Н	Р	L		
250-374	11.0	3.8	12.2	7.7	7.0		
375-449	7.9	3.6	9.3	5.0	5.0		
450-699	7.0	3.5	9.0	5.0	5.0		
700-1230	5.0	2.2	6.0	2.5	3.5		

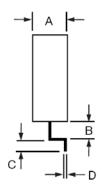


Figure 4) ZTBF (formed lead optionLand Pattern

PART NUMBER	FREQ. RANGE	А	В	С	D
ZTBF	400-429	3.6±0.5	0.9±0.3	1.5±0.3	0.15±0.05
ZTBFoodE	430-509	3.5±0.5	0.9±0.3	1.5±0.3	0.15±0.05
ZTBF	510-699	3.5±0.5	0.9±0.3	1.5±0.3	0.15±0.05
ZTBF	700-999	2.2±0.5	0.6±0.3	1.0±0.3	0.12±0.05
ZTBF	1000	2.2±0.5	0.6±0.3	1.0±0.3	0.12±0.05

PART NUMBERING GUIDE: "Example" ZTB500E

Series

Frequency

Suffix

ZTB

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Rev. 5/11