



# Resonators

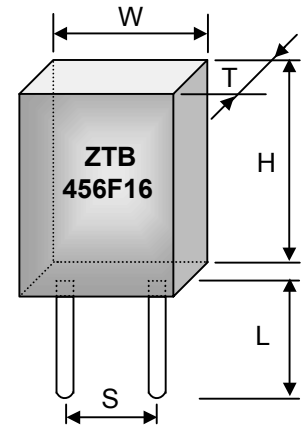
## ZTB 456 / 500 / 503 / 912F Ceramic Resonator / 陶瓷谐振器

### ▶ ZTB 456 / 500 / 503 / 912F ( Murata CSB456/503/912F Compatible ) 456 / 500 / 503 / 912kHz

Ceramic ZTB 456F Multiplexers Series is designed to provide frequency modulation for HI-FI stereo application. These units are offered in the frequency accuracy  $19\text{kHz} \pm 38\text{Hz}$  and  $456\text{kHz} \pm 2\text{kHz}$  with different applicable IC. ZTB912F Multiplexers Series is specially designed to provide frequency modulation for HI-FI automobile stereo application. ZTB 500/503F Series is designed for TV horizontal synthesizer circuits. These units are offered in the following frequency accuracy with different applicable IC.

### ▶ Resonators Dimensions (Unit: mm Tolerance: $\pm 0.3\text{mm}$ )

	ZTB 456 / 500 / 503F	ZTB 912F
W (width)	7.0	5.0
T (thickness)	3.5	2.2
H (height)	9.0	6.0
S (lead space)	5.0	2.5
L (lead length)	4.0	4.0



### ▶ Resonator Technical Characteristics

Part Number	Frequency Accuracy	Applicable IC	
ZTB456F11	$19.000\text{ kHz} \pm 38\text{ Hz}$	LA3430	SANYO
ZTB456F15	$19.000\text{ kHz} \pm 38\text{ Hz}$	LA1832	SANYO
ZTB456F16	$19.000\text{ kHz} \pm 38\text{ Hz}$	TA8122AN	TOSHIBA
ZTB456F18	$19.000\text{ kHz} \pm 38\text{ Hz}$	TA8132N	TOSHIBA
ZTB456F33	$456\text{ kHz} \pm 2\text{ Hz}$	LA2232	SANYO
ZTB480E14	$480+0.2\%, -0.4\%$	TC31018P	TOSHIBA
ZTB500F2	$500.0\text{ kHz} \pm 2\text{ kHz}$	$\mu\text{PC1401C}$	NEC
ZTB500F9	$500.0\text{ kHz} \pm 2\text{ kHz}$	M51308SP	MITSUBISH
ZTB500F25	$15.680\text{ kHz} \pm 0.4\%$	LA7680	SANYO
ZTB500F40	$15.680\text{ kHz} \pm 0.4\%$	TA8691N	TOSHIBA
ZTB503F2	$503.5\text{ kHz} \pm 2\text{ kHz}$	$\mu\text{PC1401C}$	NEC
ZTB503F5	$504.5\text{ kHz} \pm 2\text{ kHz}$	LA7620	SANYO
ZTB503F10	$15.734\text{ kHz} \pm 0.5\%$	TA7777P	TOSHIBA
ZTB503F12	$503.5\text{ kHz} \pm 2\text{ kHz}$	LDA3586N	THOMSON
ZTB503F15	$505.1\text{ kHz} \pm 2\text{ kHz}$	LA7650	SANYO
ZTB503F30	$503.5\text{ kHz} \pm 1.5\text{ kHz}$	TA8654AN	TOSHIBA
ZTB503F38	$15.734\text{ kHz} \pm 62\text{ kHz}$	AN5302	MATSUSHITA
ZTB912F	$923.0\text{ kHz} \pm 0.3\%$	LA1780	SANYO
ZTB912F101	$918.5\text{ kHz} \pm 0.3\%$	AN7291	MATSUSHITA
ZTB912F104	$925.0\text{ kHz} \pm 0.3\%$	LA1867NM	SANYO

### ▶ How to Order

ZTB456F16

①

① Part Number

P

②

② Packaging

Code	Packaging
T	Taping Reel
P	Bulk