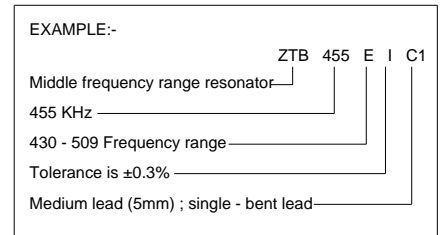
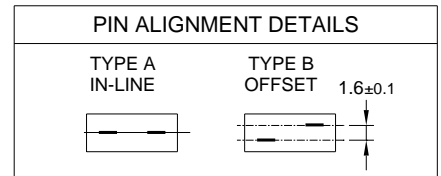


FREQUENCY RANGE	A	B	C
190 to 249 KHz (D)	8.0		
250 to 374 KHz (D)	7.0		6.0
375 to 429 KHz (P)	4.0		6.0
430 to 509 KHz (E)	4.0		5.0
510 to 699 KHz (P)	4.0		5.0
700 to 999 KHz (J)	3.5	5.5	
1 to 1.25 MHz (MJ)	3.5	5.5	

FREQUENCY RANGE	DIMENSIONS							PIN ALIGNMENT TYPE
	W	T	H	P	PW	PIN LENGTH		
						L	PT	
190 KHz to 249 KHz	13.50	3.80	14.70	10.00	0.80	8.00	0.15	B
250 KHz to 374 KHz	11.00	3.80	12.20	7.70	0.80	7.00	0.15	B
375 KHz to 429 KHz	7.90	3.60	9.30	5.00	0.80	6.00	0.50	A
430 KHz to 449 KHz	7.00	3.70	9.00	5.00	0.80	5.00	0.50	A
450 KHz to 509 KHz	7.00	3.50	9.00	5.00	0.80	5.00	0.50	A
510 KHz to 699 KHz	7.00	3.50	9.00	5.00	0.80	5.00	0.50	A
700 KHz to 999 KHz	5.20	2.80	6.80	2.50	0.80	3.50	0.50	A
1000 KHz to 1250 KHz	5.20	2.80	6.80	2.50	0.80	3.50	0.50	A



PART NUMBER CODE					
EXPLANATION	PART NUMBER	FREQUENCY	FREQUENCY RANGE	TOLERANCE	LEAD LENGTH AND FORM
		3 ALPHABETS ARE USED TO REPRESENT THE FREQUENCY RANGE OF RESONATOR	DIGITS ARE USED TO REPRESENT THE VALUE OF FREQUENCY (A) THE UNIT OF "KHz" IS OMITTED (B) "M" STANDS FOR "MHz"	AN ALPHABET IS USED TO REPRESENT FREQUENCY RANGE	A DIGIT IS USED TO REPRESENT TOLERANCE LEVEL
SIGN	"ZTB" STANDS FOR MIDDLE FREQUENCY RANGE	455 ---- 455 KHz 1.0 M ---- 1 MHz	D --- 190 KHz to 249 KHz D --- 250 KHz to 374 KHz P --- 375 KHz to 429 KHz E --- 430 KHz to 509 KHz P --- 510 KHz to 699 KHz J --- 700 KHz to 999 KHz J --- 1 MHz to 1.25 MHz	0 ----- $\pm 0.5\%$ 1 ----- $\pm 0.3\%$ 2 ----- $\pm 0.2\%$ 5 ----- ± 2 KHz 6 ----- ± 1 KHz 7 ----- $\pm 0.7\%$ 8 ----- $\pm 1.0\%$ (A) THE "0" THAT STANDS FOR STANDARD TOLERANCE IS OMITTED	ALPHABETS: A ----- SHORT LEADS B ----- LONG LEADS C --- MEDIUM LEAD (STANDARD) (A) THE "A" THAT REPRESENTS SHORT LEAD IS OMITTED DIGITS: 0 ----- STRAIGHT LEAD 1 ----- SINGLE - BENT LEAD 2 ----- DOUBLE - BENT LEAD (B) THE "0" THAT REPRESENTS STRAIGHT LEADS IS OMITTED

SPECIFICATION						
PART NUMBER	FREQUENCY RANGE (KHz)	FREQUENCY ACCURACY (KHz)	STABILITY IN TEMPERATURE -20°C to +80°C (%)	AGING FOR 10 YEARS (%)	RESONANT IMPEDANCE Ω	LOAD CAPACITANCE C1 (pF) C2 (pF)
ZTBXXD	190 to 249	± 1.0	± 0.3	± 0.5	20	330 470
ZTBXXD	250 to 374	± 1.0	± 0.3	± 0.5	20	220 470
ZTBXXP	375 to 429	± 2.0	± 0.3	± 0.5	20	120 470
ZTBXXE	430 to 449	± 2.0	± 0.3	± 0.5	20	100 100
ZTBXXE	450 to 509	± 2.0	± 0.3	± 0.5	20	100 100
ZTBXXP	510 to 699	± 2.0	± 0.3	± 0.5	20	100 100
ZTBXXJ	700 to 999	± 0.5	± 0.3	± 0.5	70	100 100
ZTBXXMJ	1000 to 1250	± 0.5	± 0.3	± 0.5	100	100 100

