

Products		Dimensions (mm)			Applications					Frequency Range (MHz)					Conditions of Use				Lead-free Status	RoHS Compliant
Product Type	Part Number	L	W	t	Digital Electronics OA, PC Peripherals Amusement	Car Electronics ITS Car Audio Car Navigation	Car Electronics (ECU, Air Bag, ABS, TPMS etc.)	Mobile Comm. Wireless LAN Dedicated Short Range Comm. (DSRC)	Industrial Use (Broadcast, Medical, Base Station etc.)	1	10	50	100	300 to 400	Manual	Reflow	Flow	Washable	A: Lead-free Products	
										16.93-----60	2-----20	3.68-----20	8-----20	4-----20					4-----20	8-----20
Ceramic Resonators	PRTC	2.5	2.0	0.8	○	○		○							Yes	Yes	No	No	B	Yes
	PBRC-G/ H	7.4	3.4	2.0 max.	○	○			○						Yes	Yes	No	Yes	B	Yes
	PBRC-L/ M	4.5	2.0	1.2 max.	○	○			○						Yes	Yes	No	Yes	B	Yes
	PRQC	3.2	1.3	1.0 max.	○	○			○						Yes	Yes	No	Yes	B	Yes
	PBRV-H	7.4	3.4	2.0 max.	○	○	○								Yes	Yes	No	Yes	B	Yes
	PBRV-M	4.5	2.0	1.2 max.	○	○	○								Yes	Yes	No	Yes	B	Yes
SAW Resonators	PRQV	3.2	1.3	1.0 max.	○	○									Yes	Yes	No	Yes	B	Yes
	PARM	3.0	3.0	1.5 max.	○	○			○						Yes	Yes	No	Yes	A	Yes
	PARS	5.5	3.8	1.5 max.	○	○			○						Yes	Yes	No	Yes	A	Yes
	PARV-A	5.5	3.8	1.5 max.	○	○									Yes	Yes	No	Yes	A	Yes
Crystal Units	PARV-B	3.0	3.0	1.5 max.	○	○									Yes	Yes	No	Yes	A	Yes
	CX2016SB (Mobile Communications)	2.0	1.6	0.40	○			○							Yes	Yes	No	Yes	A	Yes
	CX2016SB (Consumer)	2.0	1.6	0.45	○			○							Yes	Yes	No	Yes	A	Yes
	CX2520SB	2.5	2.0	0.45	○	○		○							Yes	Yes	No	Yes	A	Yes
	CX3225SA	3.2	2.5	0.75	○	○									Yes	Yes	No	Yes	A	Yes
	CX3225SB	3.2	2.5	0.55	○	○									Yes	Yes	No	Yes	A	Yes
	CX3225GB	3.2	2.5	0.8	○										Yes	Yes	No	Yes	B	Yes
	CX5032SA	4.9	3.1	0.85	○				○						Yes	Yes	No	Yes	A	Yes
	CX5032SB (CX-96F)	4.9	3.1	0.7	○	○			○						Yes	Yes	No	Yes	A	Yes
	CX5032GA (CX-53G)	5.0	3.2	1.3	○										Yes	Yes	No	Yes	B	Yes
	CX5032GB (CX-53F)	5.0	3.2	1.0	○										Yes	Yes	No	Yes	B	Yes
	CX8045GA	8.0	4.5	1.8	○										Yes	Yes	No	Yes	B	Yes
	CX8045JA (CX-17F)	8.0	4.5	1.9	○				○						Yes	Yes	No	Yes	B	Yes
	CX8045GB (CX-8045G)	8.0	4.5	1.8	○	○									Yes	Yes	No	Yes	B	Yes
	CX1255GA (CX-5FW)	11.8	5.5	2.5	○				○						Yes	Yes	No	Yes	B	Yes
	CX1255GB (CX-5FD)	11.8	5.5	1.8	○	○									Yes	Yes	No	Yes	B	Yes
	CX49FFWA (CX-49F)	11.4	5.0	5.0	○				○						Yes	Yes	No	Yes	A	Yes
	CX49GFWB (CX-49G)	12.3	4.5	4.0	○										Yes	Yes	No	Yes	A	Yes
	CX49LFWA (CX-49L)	10.8	9.5	4.4	○				○						Yes	Yes	No	Yes	A	Yes
	Tuning Fork Type Crystal Units	HC49SFWB (HC-49/ U-S) (Consumer)	10.8	4.4	3.3	○	○									Yes	No	Yes	Yes	A
HC49SFWA (HC-49/ U-S) (Automotive)		10.8	4.4	3.3	○	○									Yes	No	Yes	Yes	A	Yes
Oscillators	ST3215SB	3.2	1.5	0.75 max.	○				○						TBA	Yes	No	No	A	Yes
	ST4115SB	4.1	1.5	0.75 max.	○				○						TBA	Yes	No	No	A	Yes
	KC2520B-C1/ C2	2.5	2.0	0.7	○				○						Yes	Yes	No	Yes	A	Yes
	KC2520A-C1/ C2/ C3	2.5	2.0	0.8	○				○						Yes	Yes	No	Yes	A	Yes
	KC3225A-C2/ C3 (K25-2C/ 3C)	3.2	2.5	0.89	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032C-C1 (K30-1C)	5.0	3.2	1.0	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032C-C2 (K30-2C)	5.0	3.2	1.0	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032C-C3 (K30-3C)	5.0	3.2	1.0	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032C-C3 (K30-3C Heavy Load Type)	5.0	3.2	1.0	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032C-C5 (K30-HC)	5.0	3.2	1.0	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032D (FXO-61F2)	5.0	3.2	1.1	○				○						Yes	Yes	No	No	A	Yes
	KC5032D (FXO-64F2)	5.0	3.2	1.1	○				○						Yes	Yes	No	No	A	Yes
	KC7050A-C1 (K53-1C)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050A-C2 (K53-2C)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050A-C3 (K53-3C)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050A-C5 (K53-HC)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050B (FXO-31F)	7.0	5.0	1.8	○				○						Yes	Yes	No	No	A	Yes
	KC7050B (FXO-37F, N)	7.0	5.0	1.8	○				○						Yes	Yes	No	No	A	Yes
	KC7050B (FXO-37FA)	7.0	5.0	1.8	○				○						Yes	Yes	No	No	A	Yes
	KC7050B (FXO-34F)	7.0	5.0	1.8	○				○						Yes	Yes	No	No	A	Yes
	KC7050H-C3 (K50H-3C)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050C-C3 (K50-3C)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050C-C5 (K50-HC)	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050S-C1 (FSO-2B)	7.0	5.0	2.0 max.	○				○						Yes	Yes	No	Yes*	A	Yes
	KC7050S-C2 (FSO-2C)	7.0	5.0	2.0 max.	○				○						Yes	Yes	No	Yes*	A	Yes
	KC7050S-C3 (FSO-2D)	7.0	5.0	2.0 max.	○				○						Yes	Yes	No	Yes*	A	Yes
	KCJXO (JXO)	11.0	5.0	3.6 max.	○				○						Yes	Yes	Yes	No	A	Yes
	KCEX03 (EXO-3)	12.8	7.0	5.08 max.	○				○						Yes	No	Yes	No	A	Yes
	KPEX07	12.8	7.0	5.08 max.	○				○						Yes	No	Yes	No	A	Yes
	KC5032E-C3	5.0	3.2	1.1	○				○						Yes	Yes	No	Yes	A	Yes
	KC5032P-P2/ P3	5.0	3.2	1.1	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050P-P2/ P3	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050S-P2/ P3 (FSO-1C, FSO-1D)	7.0	5.0	2.0 max.	○				○						Yes	Yes	No	Yes*	A	Yes
	KC7050S-L2/ L3	7.0	5.0	2.0 max.	○				○						Yes	Yes	No	Yes*	A	Yes
	KC5032P-L2/ L3	5.0	3.2	1.1	○				○						Yes	Yes	No	Yes	A	Yes
	KC7050P-L2/ L3	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KV7050A (VC-FXO-35F)	7.0	5.0	1.8	○				○						Yes	Yes	No	No	A	Yes
	KV7050W-P3 (K50V-3P)	7.0	5.0	1.8	○				○						Yes	Yes	No	Yes	A	Yes
	KV5032C-C3	5.0	3.2	1.0	○				○						Yes	Yes	No	Yes	A	Yes
	KV7050B-C3	7.0	5.0	1.6	○				○						Yes	Yes	No	Yes	A	Yes
	KV7050S-P3 (VC-FSO-1D)	7.0	5.0	2.0 max.	○				○						Yes	Yes	No	Yes*	A	Yes
	KT2520	2.5	2.0	0.8 max.	○				○						TBA	Yes	No	No	A	Yes
	KT3225 (KT21)	3.2	2.5	1.0 max.	○				○						TBA	Yes	No	No	A	Yes
	KT5032 (KT18B, VC-TCXO-208Cx)	5.0	3.2	1.5 max.	○				○						TBA	Yes	No	No	A	Yes
	(VC-) DTCXO-22A	30.0	30.0	10.0	○				○						Yes	No	TBA	No	B	Yes
(VC-) DTCXO-23A	40.0	40.0	10.0	○				○						Yes	No	TBA	No	B	Yes	
(VC-) DTCXO-25A	14.0	11.5	8.0	○				○						Yes	Yes	TBA	No	B	Yes	
OCVXO-120A	35.8	26.2	18.5	○				○						Yes	No	TBA	No	C	No	
MCXO-094B	480	450	99	○				○						—	—	—	—	—	—	

\* No ultrasonic washing