



NR = Not recommended

Products			Dimensions (mm)			Applications					Products					Frequency Range (MHz)					Conditions of Use				RoHS Compliant*		AEC	
Product Type	Page No.	Part Number	L	W	T (max.)	Digital Electronics OA, PC Peripherals, Amusement	Car Electronics, ITS, Car Audio, Car Navigation	Car Electronics (ECU, Air Bag, ABS, TPMS etc.)	Mobile Comm. Wire-less LAN, Dedicated Short Range Comm.(DSRC)	Industrial Use (Broadcast, Medical, Base Station etc.)	Part Number	1	10	50	100	300 to 800	Manual	Reflow	Flow	Washable	Compliant*	Q100	Q200	Compliant*	Q100	Q200		
Crystal Units	3	CT1612RB	1.6	1.2	0.65						CT1612RB	38.4-----76.8					Yes	Yes	No	Yes	Yes							
	4	CT2016DB (Low Profile)	2.0	1.6	0.65						CT2016DB (Low Profile)	19.2 38.4					Yes	Yes	No	Yes	Yes							
	4	CT2016DB	2.0	1.6	1.0						CT2016DB	19.2 38.4					Yes	Yes	No	Yes	Yes							
	5	CX1008SB	1.0	0.8	0.3						CX1008SB	37.4-----80					Yes	Yes	No	Yes	Yes							
	6	CX1210DB	1.2	1.0	0.3						CX1210DB	37.4-----80					Yes	Yes	No	Yes	Yes							
	7	CX1210SB	1.2	1.0	0.35						CX1210SB	27.12 32 48					Yes	Yes	No	Yes	Yes							
	8	CX1612DB	1.6	1.2	0.33/0.4						CX1612DB	24-----48					Yes	Yes	No	Yes	Yes							
	9	CX2016DB	2.0	1.6	0.45						CX2016DB	16-----50					Yes	Yes	No	Yes	Yes							
	10	CX2016SA	2.0	1.6	0.5						CX2016SA	16-----50					Yes	Yes	No	Yes	Yes				Yes			
	11	CX3225SA (for Automotive)	3.2	2.5	0.8						CX3225SA (for Automotive)	8-----40					Yes	Yes	No	Yes	Yes				Yes			
	12	CX3225GA (for Automotive)	3.2	2.5	0.95						CX3225GA (for Automotive)	8-----40					Yes	Yes	No	Yes	Yes				Yes			
	Clock Oscillators (SPXO)	15-16	KC2016Z (X type)	2.0	1.6	0.8						KC2016Z (X type)	0.5-----170					No	Yes	No	NR	Yes						
15,17		KC2016Z (Y type)	2.0	1.6	0.8						KC2016Z (Y type)	24-----72					No	Yes	No	NR	Yes							
15-16		KC2520Z (X type)	2.5	2.0	0.8						KC2520Z (X type)	0.5-----170					No	Yes	No	NR	Yes							
15,17		KC2520Z (Y type)	2.5	2.0	0.8						KC2520Z (Y type)	24-----72					No	Yes	No	NR	Yes							
15-16		KC3225Z (X type)	3.2	2.5	0.8						KC3225Z (X type)	0.5-----170					No	Yes	No	NR	Yes							
15,17		KC3225Z (Y type)	3.2	2.5	0.8						KC3225Z (Y type)	24-----72					No	Yes	No	NR	Yes							
15-16		KC5032Z (X type)	5.0	3.2	1.2						KC5032Z (X type)	0.5-----170					No	Yes	No	NR	Yes							
15,17		KC5032Z (Y type)	5.0	3.2	1.2						KC5032Z (Y type)	24-----72					No	Yes	No	NR	Yes							
15-16		KC7050Z (X type)	7.0	5.0	1.2						KC7050Z (X type)	0.5-----170					No	Yes	No	NR	Yes							
15,17		KC7050Z (Y type)	7.0	5.0	1.2						KC7050Z (Y type)	24-----72					No	Yes	No	NR	Yes							
18-19		MC2016Z (X type)	2.0	1.6	0.8						MC2016Z (X type)	0.5-----170					No	Yes	No	NR	Yes	Yes (option)	Yes					
18,20		MC2016Z (Y type)	2.0	1.6	0.8						MC2016Z (Y type)	24-----72					No	Yes	No	NR	Yes	Yes (option)	Yes					
18-19		MC2520Z (X type)	2.5	2.0	0.8						MC2520Z (X type)	0.5-----170					No	Yes	No	NR	Yes	Yes (option)	Yes					
18,20		MC2520Z (Y type)	2.5	2.0	0.8						MC2520Z (Y type)	24-----72					No	Yes	No	NR	Yes	Yes (option)	Yes					
18-19		MC3225Z (X type)	3.2	2.5	0.8						MC3225Z (X type)	0.5-----170					No	Yes	No	NR	Yes	Yes (option)	Yes					
18,20		MC3225Z (Y type)	3.2	2.5	0.8						MC3225Z (Y type)	24-----72					No	Yes	No	NR	Yes	Yes (option)	Yes					
18-19		MC5032Z (X type)	5.0	3.2	1.2						MC5032Z (X type)	0.5-----170					No	Yes	No	NR	Yes	Yes (option)	Yes					
18,20		MC5032Z (Y type)	5.0	3.2	1.2						MC5032Z (Y type)	24-----72					No	Yes	No	NR	Yes	Yes (option)	Yes					
18-19		MC7050Z (X type)	7.0	5.0	1.2						MC7050Z (X type)	0.5-----170					No	Yes	No	NR	Yes	Yes (option)	Yes					
18,20		MC7050Z (Y type)	7.0	5.0	1.2						MC7050Z (Y type)	24-----72					No	Yes	No	NR	Yes	Yes (option)	Yes					
21-23		KC2016K	2.0	1.6	0.8						KC2016K	1.5-----160					No	Yes	No	NR	Yes							
21-23		KC2520K	2.5	2.0	0.8						KC2520K	1.5-----160					No	Yes	No	NR	Yes							
21-23		KC3225K	3.2	2.5	0.8						KC3225K	1.5-----160					No	Yes	No	NR	Yes							
21-23		KC5032K	5.0	3.2	1.2						KC5032K	1.5-----160					No	Yes	No	NR	Yes							
21-23		KC7050K	7.0	5.0	1.2						KC7050K	1.5-----160					No	Yes	No	NR	Yes							
24-26		MC2016K	2.0	1.6	0.8						MC2016K	1.5-----160					No	Yes	No	NR	Yes	Yes (option)	Yes					
24-26		MC2520K	2.5	2.0	0.8						MC2520K	1.5-----160					No	Yes	No	NR	Yes	Yes (option)	Yes					
24-26		MC3225K	3.2	2.5	0.8						MC3225K	1.5-----160					No	Yes	No	NR	Yes	Yes (option)	Yes					
24-26		MC5032K	5.0	3.2	1.2						MC5032K	1.5-----160					No	Yes	No	NR	Yes	Yes (option)	Yes					
24-26		MC7050K	7.0	5.0	1.2						MC7050K	1.5-----160					No	Yes	No	NR	Yes	Yes (option)	Yes					
27		KC5032P-P2/ P3	5.0	3.2	1.3						KC5032P-P2/ P3	25-----175					Yes	Yes	No	NR	Yes							
28		KC7050P-P2/ P3	7.0	5.0	1.8						KC7050P-P2/ P3	25-----175					Yes	Yes	No	NR	Yes							
29		KC7050R-P3	7.0	5.0	1.8						KC7050R-P3	10-----800					Yes	Yes	No	NR	Yes							
30		KC7050G-P3	7.0	5.0	1.8						KC7050G-P3	10-----800					Yes	Yes	No	NR	Yes							
31		KC5032P-L2/ L3	5.0	3.2	1.3						KC5032P-L2/ L3	25-----175					Yes	Yes	No	NR	Yes							
32		KC7050P-L2/ L3	7.0	5.0	1.8						KC7050P-L2/ L3	25-----175					Yes	Yes	No	NR	Yes							
33		KC5032P-H2/ H3	5.0	3.2	1.3						KC5032P-H2/ H3	25-----175					Yes	Yes	No	NR	Yes							
34		KC7050P-H2/ H3	7.0	5.0	1.8						KC7050P-H2/ H3	25-----175					Yes	Yes	No	NR	Yes							
Voltage Controlled Crystal Oscillators (VCXO)		35	KV5032R	5.0	3.2	1.2					KV5032R	10-----800					Yes	Yes	No	NR	Yes							
		36	KV5032G	5.0	3.2	1.2					KV5032G	10-----800					Yes	Yes	No	NR	Yes							
		37	KV7050R-P3	7.0	5.0	1.8					KV7050R-P3	10-----800					Yes	Yes	No	NR	Yes							
		38	KV7050G-P3	7.0	5.0	1.8					KV7050G-P3	10-----800					Yes	Yes	No	NR	Yes							
Temperature Compensated Crystal Oscillators (TCXO)		39	KT1612A (Low Phase Noise)	1.65	1.25	0.55					KT1612A (Low Phase Noise)	19.2-----76.8					No	Yes	No	No	Yes							
		40	KT1612A	1.65	1.25	0.55					KT1612A	19.2-----76.8					No	Yes	No	No	Yes							
		41	KT2016K	2.0	1.6	0.8					KT2016K	19.2-----52.0					No	Yes	No	No	Yes	Yes (option)	Yes					
		42	KT2520K	2.5	2.0	0.8					KT2520K	19.2-----52.0					No	Yes	No	No	Yes	Yes (option)	Yes					
		43	KT5032F	5.0	3.2	1.7					KT5032F	10-----40					Contact us	Yes	No	No	Yes							
		44	KT7050	7.0	5.0	1.7					KT7050	10-----40					Contact us	Yes	No	No	Yes							

* RoHS Compliant Products : Products which do not contain lead, cadmium, mercury, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP and DIBP, based on EU DIRECTIVE 2015/863/EU. Substances exempted by the DIRECTIVE and impurities observed in the natural environment are excepted.