

Product Type	Products		Dimensions (mm)			Applications					Products	Frequency Range (MHz)					Conditions of Use				RoHS Compliant**	AEC			
	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. Wireless LAN Dedicated Short Range Comm. (DSRC)	Industrial Use (Broadcast, Medical, Base Station etc.)		Part Number	1	10	50	100	300 to 800	Solder				Washable	Q100	Q200	
																		Manual	Reflow	Flow					
kHz Range Crystal Devices	3	ST2012SB (Tuning Fork Units)	2.0	1.2	0.6						ST2012SB (Tuning Fork Units)	-	32.768kHz					Yes	Yes	No	Contact us	Yes			
	4	ST3215SB (Tuning Fork Units)	3.2	1.5	0.9						ST3215SB (Tuning Fork Units)	-	32.768kHz					Yes	Yes	No	Contact us	Yes		Yes	
	5	KC2520B (Divided Down AT Cut Crystal Oscillators)	2.5	2.0	0.8						KC2520B (Divided Down AT Cut Crystal Oscillators)	-	32.768kHz					Yes	Yes	No	Yes	Yes			
	6	KC2520M (Divided Down AT Cut Crystal Oscillators)	2.5	2.0	0.8						KC2520M (Divided Down AT Cut Crystal Oscillators)	-	32.768kHz					Yes	Yes	No	Yes	Yes	Yes	Yes	
	7	KC3215A (Clock Oscillator)	3.2	1.5	1.0						KC3215A (Clock Oscillator)	-	32.768kHz					Contact us	Yes	No	No	Yes		Yes	
	8	KT3225T (DTCXO)	3.2	2.5	1.0						KT3225T (DTCXO)	-	32.768kHz					Contact us	Yes	No	No	Yes		Yes	
	9	KR3225Y (Real Time Clock Module)	3.2	2.5	1.0						KR3225Y (Real Time Clock Module)	-	32.768kHz					Contact us	Yes	No	No	Yes		Yes	
	11	CT1612DB	1.6	1.2	0.65						CT1612DB		38.4	60	76.8			Yes	Yes	No	Yes	Yes			
	12	CT2016DB (Low Profile)	2.0	1.6	0.65						CT2016DB (Low Profile)		19.2	60				Yes	Yes	No	Yes	Yes			
Crystal Units	12	CT2016DB	2.0	1.6	1.0						CT2016DB		19.2	60			Yes	Yes	No	Yes	Yes				
	13	CT2520DB	2.5	2.0	1.0						CT2520DB		16	60			Yes	Yes	No	Yes	Yes		Yes		
	14	CX1008SB	1.0	0.8	0.3						CX1008SB		37.4	80			Yes	Yes	No	Yes	Yes				
	15	CX1210DB	1.2	1.0	0.3						CX1210DB		37.4	80			Yes	Yes	No	Yes	Yes				
	16	CX1210SB	1.2	1.0	0.35						CX1210SB		27.12	32			Yes	Yes	No	Yes	Yes				
	17	CX1612DB (for Consumer Products)	1.6	1.2	0.4						CX1612DB (for Consumer Products)		26	60			Yes	Yes	No	Yes	Yes				
	18	CX1612DB (Mobile Communication)	1.6	1.2	0.33						CX1612DB (Mobile Communication)		37.4	60			Yes	Yes	No	Yes	Yes				
	19	CX2016DB	2.0	1.6	0.45						CX2016DB		16	60			Yes	Yes	No	Yes	Yes				
	23	CX2016GR (for Automotive)	2.05	1.65	0.8						CX2016GR (for Automotive)		16	60			Yes	Yes	No	Yes	Yes		Yes		
	24	CX2016SA (for Automotive)	2.0	1.6	0.5						CX2016SA (for Automotive)		16	60			Yes	Yes	No	Yes	Yes		Yes		
	20	CX2520DB	2.5	2.0	0.55						CX2520DB		12	54			Yes	Yes	No	Yes	Yes				
	25	CX3225GA	3.2	2.5	0.95						CX3225GA		8	54			Yes	Yes	No	Yes	Yes		Yes		
	26	CX3225CA	3.2	2.5	0.9						CX3225CA		12	54			Yes	Yes	No	Yes	Yes		Yes		
	21	CX3225GB	3.2	2.5	0.9						CX3225GB		12	54			Yes	Yes	No	Yes	Yes				
	27	CX3225SA (for Automotive)	3.2	2.5	0.8						CX3225SA (for Automotive)		8	54			Yes	Yes	No	Yes	Yes		Yes		
	22	CX3225SB (for Consumer Products, Mobile Communication)	3.2	2.5	0.6						CX3225SB (for Consumer Products, Mobile Communication)		12	54			Yes	Yes	No	Yes	Yes				
	28	CX3225SB (for Automotive)	3.2	2.5	0.6						CX3225SB (for Automotive)		12	54			Yes	Yes	No	Yes	Yes		Yes		
	Clock Oscillators (SPXO)	31-33	KC2016Z (X, Z type)	2.0	1.6	0.8						KC2016Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes		
		31, 34-35	KC2016Z (Y, W type)	2.0	1.6	0.8						KC2016Z (Y, W type)		24			72		No	Yes	No	Yes	Yes		
		31-33	KC2520Z (X, Z type)	2.5	2.0	0.8						KC2520Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes		
31, 34-35		KC2520Z (Y, W type)	2.5	2.0	0.8						KC2520Z (Y, W type)		24			72		No	Yes	No	Yes	Yes			
31-33		KC3225Z (X, Z type)	3.2	2.5	0.8						KC3225Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes			
31, 34-35		KC3225Z (Y, W type)	3.2	2.5	0.8						KC3225Z (Y, W type)		24			72		No	Yes	No	Yes	Yes			
31-33		KC5032Z (X, Z type)	5.0	3.2	1.2						KC5032Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes			
31, 34-35		KC5032Z (Y, W type)	5.0	3.2	1.2						KC5032Z (Y, W type)		24			72		No	Yes	No	Yes	Yes			
31-33		KC7050Z (X, Z type)	7.0	5.0	1.2						KC7050Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes			
31, 34-35		KC7050Z (Y, W type)	7.0	5.0	1.2						KC7050Z (Y, W type)		24			72		No	Yes	No	Yes	Yes			
36-38		MC2016Z (X, Z type)	2.0	1.6	0.8						MC2016Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes	Yes	Yes	
36, 39-40		MC2016Z (Y, W type)	2.0	1.6	0.8						MC2016Z (Y, W type)		24			72		No	Yes	No	Yes	Yes	Yes	Yes	
36-38		MC2520Z (X, Z type)	2.5	2.0	0.8						MC2520Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes	Yes	Yes	
36, 39-40		MC2520Z (Y, W type)	2.5	2.0	0.8						MC2520Z (Y, W type)		24			72		No	Yes	No	Yes	Yes	Yes	Yes	
36-38		MC3225Z (X, Z type)	3.2	2.5	0.8						MC3225Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes	Yes	Yes	
36, 39-40		MC3225Z (Y, W type)	3.2	2.5	0.8						MC3225Z (Y, W type)		24			72		No	Yes	No	Yes	Yes	Yes	Yes	
36-38		MC5032Z (X, Z type)	5.0	3.2	1.2						MC5032Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes	Yes	Yes	
36, 39-40		MC5032Z (Y, W type)	5.0	3.2	1.2						MC5032Z (Y, W type)		24			72		No	Yes	No	Yes	Yes	Yes	Yes	
36-38		MC7050Z (X, Z type)	7.0	5.0	1.2						MC7050Z (X, Z type)	0.5				170		No	Yes	No	Yes	Yes	Yes	Yes	
36, 39-40		MC7050Z (Y, W type)	7.0	5.0	1.2						MC7050Z (Y, W type)		24			72		No	Yes	No	Yes	Yes	Yes	Yes	
41-43		KC2016K	2.0	1.6	0.8						KC2016K	1.5				160		No	Yes	No	Yes	Yes			
41-43		KC2520K	2.5	2.0	0.8						KC2520K	1.5				160		No	Yes	No	Yes	Yes			
41-43		KC3225K	3.2	2.5	0.8						KC3225K	1.5				160		No	Yes	No	Yes	Yes			
41-43		KC5032K	5.0	3.2	1.2						KC5032K	1.5				160		No	Yes	No	Yes	Yes			
41-43		KC7050K	7.0	5.0	1.2						KC7050K	1.5				160		No	Yes	No	Yes	Yes			
44-46		MC2016K	2.0	1.6	0.8						MC2016K	1.5				160		No	Yes	No	Yes	Yes	Yes	Yes	
44-46		MC2520K	2.5	2.0	0.8						MC2520K	1.5				160		No	Yes	No	Yes	Yes	Yes	Yes	
44-46		MC3225K	3.2	2.5	0.8						MC3225K	1.5				160		No	Yes	No	Yes	Yes	Yes	Yes	
44-46		MC5032K	5.0	3.2	1.2						MC5032K	1.5				160		No	Yes	No	Yes	Yes	Yes	Yes	
44-46		MC7050K	7.0	5.0	1.2						MC7050K	1.5				160		No	Yes	No	Yes	Yes	Yes	Yes	
47		KC2016B-C1	2.0	1.6	0.65						KC2016B-C1	1.5				50		Yes	Yes	No	Yes	Yes			
48		KC2520B-C1	2.5	2.0	0.8						KC2520B-C1	1.5				125		Yes	Yes	No	Yes	Yes			
49		KC2520B-C2	2.5	2.0	0.8						KC2520B-C2					125-160		Yes	Yes	No	Yes	Yes			
51-52		KC2520C-C1/ C2	2.5	2.0	0.8						KC2520C-C1/ C2	1.5				54		Yes	Yes	No	Yes	Yes			
50		KC2520M	2.5	2.0	0.8						KC2520M	1.5				60		Yes	Yes	No	Yes	Yes	Yes	Yes	
53-54		KC3225A-C2/ C3	3.2	2.5	1.0						KC3225A-C2/ C3	1.5				125		Yes	Yes	No	Yes	Yes	Yes	Yes	
55		KC7050A-C1	7.0	5.0	1.8						KC7050A-C1	1.8				39.99		Yes	Yes	No	Yes	Yes			
56		KC7050A-C2	7.0	5.0	1.8						KC7050A-C2	1.8				125		Yes	Yes	No	Yes	Yes			
57		KC7050A-C3	7.0	5.0	1.8						KC7050A-C3	1.8				170		Yes	Yes	No	Yes	Yes			
58		KC7050A-C5	7.0	5.0	1.8																				