

VCXO Decision Table

Logic	Package		Supply (V)		Jitter	Frequency Range (MHz)	Stability (±ppm)	Pull [APR] (±ppm)	SaRonix-eCERA Part Series	Legacy Part Series
	Type	Size	3.3	5.0	U, L, M, H					
CMOS	SMD Ceramic	7 x 5mm	X		U	1 ~ 32	50	32 ~ 100	YN, 3.3V	ST1307
				X	U	1 ~ 32	50	32 ~ 100	YN, 5.0V	ST1507
			X		M	32 ~ 125	50	32 ~ 100	YN, 3.3V	ST1317
				X	M	32 ~ 125	50	32 ~ 100	YN, 3.3V	ST1517
LVPECL	SMD Ceramic	7 x 5mm	X		M	19.44 ~ 670	25	50	PR	S1577
LVDS	SMD Ceramic	7 x 5mm	X		M	19.44 ~ 670	25	50	LR	-

MHz Crystal Decision Table

Type	Package		Frequency Range (MHz)	Calibration (±ppm)	Stability Com (±ppm)	SaRonix-eCERA Series Part Series	Legacy Part Series
	Type	Size					
Metal Can (TH)	13.46 x 10.25 mm	2 leads	1.843 ~ 60	20	20	GA	HC-49/U (NYP, NMP)
	11.18 x 3.5 mm	2 leads	3.2 ~ 54	20	20	GB	49S (HC-49/U short)
Metal Can (SMD)	13.5 x 5.0 x 4.0 mm	2 pin	3.2 ~ 54	20	20	GC	49SMLB
	13.5 x 5.0 x 3.0 mm	2 pin	8 ~ 54	20	20	GF	49S3XH
Ceramic (SMD)	8 x 4.5 mm	2 pad	6 ~ 48	10	10	F8	NES8
	7 x 5 mm	4 pad	6 ~ 70	10	10	FP	NKS7
	6 x 3.5 mm	4 pad	10 ~ 50	10	10	FX	NSK6
	6 x 3.5 mm	2 pad	10 ~ 50	10	10	F6	NES6
	5 x 3.2 mm	4 pad	12 ~ 50	10	10	FY	NKS5
	5 x 3.2 mm	2 pad	12 ~ 50	10	10	F9	NES6
	4 x 2.5 mm	4 pad	12 ~ 54	10	10	FF	-
	3.2 x 2.5 mm	4 pad	12 ~ 54	10	10	FL	NKS3
	2.5 x 2.0mm	4 pad	20 ~ 54	10	10	FH	NKS2

KHz (Tuning Fork) Crystal Decision Table

Type	Package		Frequency Range (MHz)	Calibration (±ppm)	Stability Com (±ppm)	SaRonix-eCERA Series Part Series	Legacy Part Series
	Type	Size					
Tubular (TH)	8.0 x 3.0mm	2 lead	32.768KHz	20	-	G1	NTF3238
	6.0 x 2.0mm	2 lead	32.768KHz	20	-	G2	NTF3226
Tubular (SMD)	6.0 x 2.0mm	2 lead	32.768KHz	20	-	G3	-
Plastic (SMD)	8 x 3.8 mm	4 pad	32.768KHz	20	-	G4	32S12C-F
	7 x 1.5 mm	2 pad	32.768KHz	20	-	G5	-
Ceramic (SMD)	4 x 1.5mm	2 pad	32.768KHz	20	-	G7	-
	3.2 x 1.5mm	2 pad	32.768KHz	20	-	G8	-

Clock Oscillator Decision Table

Logic	Package		Supply (V)			Jitter	Frequency Range (MHz)	Stability Commercial (±ppm)	SaRonix-eCERA Part Series	Legacy Part Series	
	Type	Size	1.8	2.5	3.3	U, L, M, H					
LVCMOS	SMD Ceramic	7 x 5 mm			x	H	1 ~ 125	25	FA, 3.3V	S8002C**	
			x			L	0.5 ~ 100	50	FN 1.8V	S1612	
				x		L	1.544 ~ 149.99	25	FN 2.5V	S1614	
					x	L	1.544 ~ 149.99	25	FN 3.3V	S1613	
					x	U	150 ~ 166	25	SX, 2.5V	S1614XP	
					x	U	150 ~ 166	25	SX, 3.3V	S1613XP	
			5 x 3.2 mm	x			L	1.544 ~ 100	25	FD, 1.8V	S1632
				x			L	1.843 ~ 125	25	FD, 2.5V	S1634
					x		L	1.843 ~ 125	25	FD, 3.3V	S1633
				x			U	150 ~ 166	25	SY, 2.5V	S1634XP
					x		U	150 ~ 166	25	SY, 3.3V	S1633XP
			3.2 x 2.5 mm	x			L	1.843 ~ 106.25	25	FK, 1.8V	S1642
				x			L	1.843 ~ 106.25	25	FK, 2.5V	S1644
					x		L	1.843 ~ 106.25	25	FK, 3.3V	S1643
			2.5 x 2.0 mm	x				1.843 ~ 75	25	FJ, 1.8V	-
	x				L	1.843 ~ 75	25	FJ, 2.5V	-		
				x		L	1.843 ~ 75	25	FJ, 3.3V	-	
LVDS	SMD Ceramic	7x 5 mm		x		U	50 ~ 150	25	PX, 2.5V	SDS382	
					x	U	50 ~ 150	25	PX, 2.5V	SDS383	
					x	L	150 ~ 350	25	LN, 3.3V	SDS3811	
PECL	SMD Ceramic	7x 5 mm		x		U	150 ~ 212.5*	25	SN, 2.5V	SEL382	
					x	U	150 ~ 212.5*	25	SN, 3.3V	SEL383	
					x	L	25, 212 ~ 670	25	PN, 3.3V	SEL381	
		5 x 3.2 mm		x		U	38.88 ~ 212.5*	25	SD, 2.5V	SEL502	
					x		U	38.88 ~ 212.5*	25	SD, 3.3V	SEL503

*Programmable

Note: SMD = Surface Mount Device

Real Time Clock Oscillator Decision Table

Logic	Package		Supply (V)			Jitter	Frequency Range (MHz)	Stability Commercial (±ppm)	SaRonix-eCERA Part Series	Legacy Part Series
	Type	Size	1.8	2.5	3.3	U, L, M, H				
LVCMOS	SMD	7 x 5 mm	x	x	x	L	32.768KHz	25	KN	-
		5 x 3.2 mm	x	x	x	L	32.768KHz	25	KD	-
		3.2 x 2.5 mm	x	x	x	L	32.768KHz	25	KK	-

Note: SMD = Surface Mount Device

Application Selection Table

		PRODUCT SERIES																						
		VCXO		XO										XTAL										
		PR	YN	SD	SN	PN	PX	LN	FJ	FK	FD	FN	SY	SX	FH	FL	FF	FY, F9	FX, F6	FP	F8	GC, GF	GB	GA
Wireless / Access	WiFi, 802.11a/b/g/n							x	x	x	x			x	x	x	x	x						
	Bluetooth							x	x					x	x	x	x	x						
	RFID							x	x					x	x	x	x	x						
	UWB							x	x					x	x	x	x	x						
	Zigbee							x	x					x	x	x	x	x						
	DSL, ADSL, XDSL		x	x					x	x	x		x	x			x					x	x	x
	VoIP, VoDSL		x	x		x			x	x	x		x	x			x					x	x	
	EPON, GPON		x	x		x	x	x	x	x	x		x	x			x					x	x	
	Cable Modem																					x	x	x
	T1/E1 (DS-1)		x						x	x	x		x	x			x					x	x	x
T3/E3 (DS-3)		x						x	x	x	x	x	x			x							x	
Storage	1Gb Fiber Channel							x	x	x	x	x	x	x			x				x	x		
	2/4 Gb Fiber Channel			x	x		x		x	x	x	x	x	x			x				x	x		
	SATA, SAS, iSCSI			x	x		x		x	x	x	x	x	x			x				x	x		
Ethernet / LAN	10/100 Ethernet							x	x	x				x			x				x	x	x	
	1G Ethernet			x	x	x			x	x	x	x	x	x			x				x	x		
	10G Ethernet	x		x	x	x			x	x	x	x	x											
	XAUI Backplane			x	x	x	x	x					x	x										
SONET/SDH	OC -1 (STM-0)	x	x	x	x	x			x	x	x	x	x	x			x				x	x	x	
	OC -3 (STM-1)	x	x	x	x	x	x		x	x	x	x	x	x			x				x	x	x	
	OC -12 (STM-4)	x	x	x	x	x	x		x	x														
	OC -48 (STM-16)		x	x	x	x								x	x									
	OC -48 (STM-192)			x	x	x																		
Portable Devices	Cellular Handset							x	x					x	x	x								
	GPS, Navigation							x	x					x	x	x								
	PMP Player, MP3, MP4							x	x					x	x	x								
	PDA							x	x					x	x	x								
	Notebook Computer							x	x	x	x			x	x	x	x	x	x					
Multimedia	Set Top Box		x									x	x	x							x	x	x	
	Video Processing								x	x	x	x	x				x				x	x	x	
	Audio Player								x	x	x										x	x	x	
	HDTV, LCD TV		x									x	x	x				x				x	x	
	DLP Projector											x	x	x				x				x	x	
	Digital Still Camera									x								x						
Computing	Digital Signal Processor								x	x	x			x			x				x	x	x	
	Micro-controller								x	x	x			x			x				x	x	x	
	Network processors			x	x	x	x	x																
	Intel Platform									x	x	x			x			x			x	x	x	
	AMD Platform									x	x	x			x			x			x	x	x	