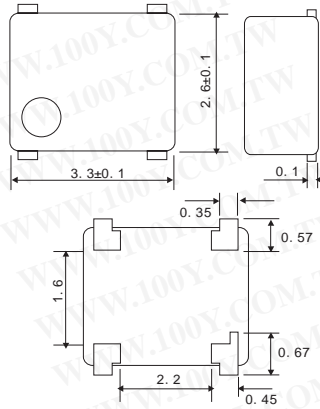


Timing Function IC

SMD Crystals



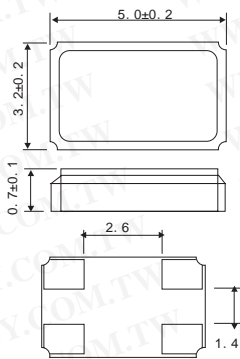
Detailed product specifications are available on: us.100y.com.tw

Item	Symbol	Specifications *2		Remarks
		PH / SH	PC / SC	
Output frequency range	F ₀	1.0 MHz to 80 MHz	1.0 MHz to 125 MHz	VDD = 4.5 V to 5.5 V VDD = 3.0 V to 3.6 V
Max. supply voltage	V _{DD-GND}	-0.5 V to +7.0 V		
Operating voltage	V _{DD}	4.5 V to 5.5 V	2.7 V to 3.6 V	
Storage temperature	T _{STG}	-40 °C to +125 °C		Stored as bare product after unpacking
Operating temperature	T _{OPR}	-20 °C to +70 °C (-40 °C to +85 °C)		
Frequency stability	Δf/f ₀	B: ±50 x 10 ⁻⁶ C: ±100 x 10 ⁻⁶		-20 °C to +70 °C
		M: ±100 x 10 ⁻⁶ +3		-40 °C to +85 °C
		L: ±50 x 10 ⁻⁶		-40 °C to +85 °C, VDD ±5%
Current consumption	I _{OP}	35 mA Max.	—	No load (f ₀ = 80 Mhz)
		—	28 mA Max.	No load (f ₀ = 125 Mhz)
Output disable current	IOE	20 mA Max.	—	P type only (OE = GND, f ₀ = 80 Mhz)
		—	16 mA Max.	P type only (OE = GND, f ₀ = 125 Mhz)
Standby current	IST	50 μA Max.		S Type Only
Aging	fa	±5 x 10 ⁻⁶ / year Max.		Ta = +25 °C, First year
Shock resistance	S.R.	±20 x 10 ⁻⁶ Max.		Three drops on a hard board from 750 mm or excitation test with 29400 m/s ² x 0.3 ms x 1/2sine wave in 3 directions

- Using PLL technology and One time PROM programmability for quick-turn custom version.
- Reflowable and high density mounting type smallest SMD package(3.2 mm x 2.5 mm).
- Operable 3.3 V and 5.0 V.
- Output enable (OE : P type) or Standby (ST : S type) function allow more low current consumption.

- Available for lead (Pb)-free soldering.
- Complete lead (Pb)-free product.

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Load capacitance(pF)	Can Style	±ppm
23484	SG-8002LA5M-PHM	EPSON	HIGH-FREQUENCY CRYSTAL OSCILLATOR	1.0-80MHz	15Pf	4P/SOIC	+/-50ppm



Model	SX-5032	
Nominal Frequency Range	10.000-50.000MHz	
Standard Frequency	10.000, 11.000, 12.000, 25.000MHz	
Vibration Mode	Fundamental [AT]	
Frequency Tolerance (@ +25°C)	±10 ppm	
Freq. Temp. Characteristics (Ref. to 25°C)	±10 ppm	±15 ppm
Operating Temperature Range	-10°C~+60°C	
Storage Temperature Range	-40°C~+90°C	
Load Capacitance	Series, 10pF, 12pF, 16pF	
Shunt Capacitance	5pF Max.	
Drive Level	10μW(100μWMax.)	
Equivalent Series Resistance	See Table 1	
Aging (+25°C)	±1, ±3 ppm/year Max.	

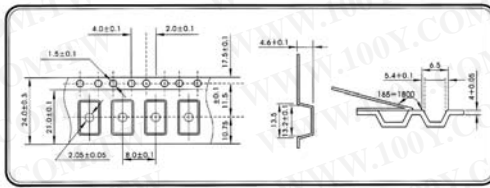
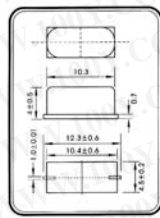
FEATURES

Ultra-thin, Ceramic SMD Package, Seam Sealed, Lead-free Design, Tight Tolerance and Stability, Reflow Soldering, Emboss Taping, RoHS Compliant Standard

TYPICAL APPLICATIONS

Cellular Telephones, PHS, Cordless Telephones and Pagers, WLAN, Bluetooth, Hand-Held Products

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Load capacitance(pF)	Can Style	±ppm
29155	SX-5032-16MHZ	SIWARD	SMD Quartz Crystal	16.000	12	5*3.2	20ppm



Capacitance range	3-30 Mhz	24-60 Mhz
Working temperature range	-20°C~+70°C	
Aging	<5ppm/year	
Load capacitance	12PF~∞	
Drive level	0.01mw~1mw	

This kind of resonators is widely used in computers, facsimiles, TV, AV kind of equipments and instruments

Part No.	Product No.	Description	Frequency(MHz)	Load capacitance(pF)	Can Style	±ppm
23328	XTAL-10.000M-49/SMD	SMD Quartz Crystal Units	10.000MHz	20pF	HC-49/S-SMD	50ppm
23336	XTAL-10.245M-49/SMD	SMD Quartz Crystal Units	10.245MHz	20pF	HC-49/S-SMD	50ppm
23329	XTAL-11.000M-49/SMD	SMD Quartz Crystal Units	11.000MHz	20pF	HC-49/S-SMD	50ppm
15729	XTAL-11.0592M-49/SMD	SMD Quartz Crystal Units	11.0592MHz	20pF	HC-49/S-SMD	+30ppm
23330	XTAL-15.000M-49/SMD	SMD Quartz Crystal Units	15.000MHz	20pF	HC-49/S-SMD	50ppm
23332	XTAL-16.9344M-49/SMD	SMD Quartz Crystal Units	16.9344MHz	20pF	HC-49/S-SMD	30ppm
23338	XTAL-18.432M-49/SMD	SMD Quartz Crystal Unit	18.432MHz	20pF	HC-49/S-SMD	50ppm
23334	XTAL-24.000M-49/SMD	SMD Quartz Crystal Units	24.000MHz	20pF	HC-49/S-SMD	±50PPM
15727	XTAL-3.579545M-49/SMD	SMD Quartz Crystal Unit	3.579545MHz	20pF	HC-49/S-SMD	30ppm
23324	XTAL-4.000M-49/SMD	SMD Quartz Crystal Units	4.000MHz	20pF	HC-49/S-SMD	+/-50PPM
23325	XTAL-4.096M-49/SMD	SMD Quartz Crystal Units	4.096MHz	20pF	HC-49/S-SMD	30ppm
23345	XTAL-4.915M-49/SMD	SMD Quartz Crystal Unit	4.915MHz	20pF	HC-49/S-SMD	30ppm
23337	XTAL-40.000M-49/SMD	SMD Quartz Crystal Units	40.000MHz	20pF	HC-49/S-SMD	50ppm
23326	XTAL-5.000M-49/SMD	SMD Quartz Crystal Units	5.000MHz	20pF	HC-49/S-SMD	30ppm

