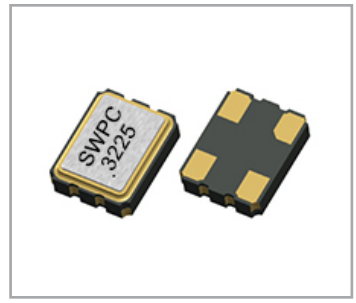
PC Type Crystal Oscillator
Programmable 3.2 x 2.5 mm
Frequency 1MHz to 200MHz

STARWAVE



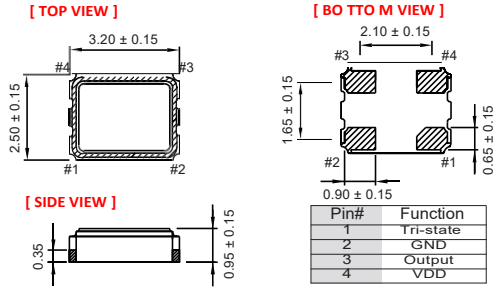
FEATURE

- Typical 3.2 x 2.5 x 0.95 mm ceramic SMD package
- Operation supply voltage: 1.8V, 2.5V and 3.3V
- FASTXO series, Fast delivery at any frequency
- Tri-State Enable/Disable
- Frequency Stability ±25ppm over -40°C to 105°C
- Pb-free/RoHS compliant

TYPICAL APPLICATION

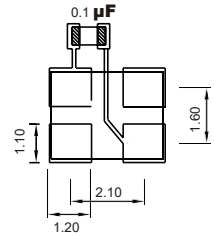
- Computer Peripherals
- Set-top Box , HDTV
- DSC, PDA

DIMENSION (mm)



Pin#	Function
1	Tri-state
2	GND
3	Output
4	VDD

SOLDER PAD LAYOUT (mm)



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1µF as close to the part as possible between Vdd and GND pads.

ELECTRICAL SPECIFICATION

Parameter		3.3V		2.5V		1.8V		Unit
		Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation		V_{DD}-5%	V_{DD}+5%	V_{DD}-5%	V_{DD}+5%	V_{DD}-5%	V_{DD}+5%	V
Frequency Range		1	200	1	200	1	125	MHz
Supply Current (@15pf Loading)		-	35	-	30	-	20	mA
Output Level	**Output High**	90%V_{DD}	-	90%V_{DD}	-	90%V_{DD}	-	V
	Output Low	-	10%V_{DD}	-	10%V_{DD}	-	10%V_{DD}	V
Transition Time	**Rise Time / Fall Time**	-	2	-	2	-	3	nSec
Duty Cycle		45	55	45	55	45	55	%
Startup Time		-	8	-	8	-	8	mSec
Tri-State	**Output Enable**	0.7 x V_{DD}	-	0.7 x V_{DD}	-	0.7 x V_{DD}	-	V
	Output Disable	-	0.3 x V_{DD}	-	0.3 x V_{DD}	-	0.3 x V_{DD}	V
Stand by Current (@PD Mode)		-	400	-	400	-	400	uA
Stand by Current (@OE Mode)		-	20	-	20	-	20	mA
Output Loading		15		15		15		pf
RMS Phase Jitter (12KHz to 20MHz)		-	2	-	2	-	2	pSec
Aging (@ 25°C, First Year)		-	±3	-	±3	-	±3	ppm
Storage Temp. Range		-50	+125	-50	+125	-50	+125	°C

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.
+ Transition times are measured between 10% and 90% of VDD, with an output load of 15pF.

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C) \ ppm	±15	± 20	±25	±50
-20~+70	△	○	○	○
-40~+85	X	△	○	○
-40~+105	X	△	○	○

*O: Available △: Conditional X: Not available
*Inclusive of calibration @ 25 °C ,operating temperature rrange,input Voltage variation,load variation,aging (1st year),shock,and vibration

深圳市满度科技有限公司
Web:www.manduic.com

Tel:150-1290-5940
Email:sales@manduic.com

微信扫码咨询客服

PC Type Crystal Oscillator
Programmable 3.2 x 2.5 mm
Frequency 1MHz to 200MHz

STARWAVE

Ordering Information

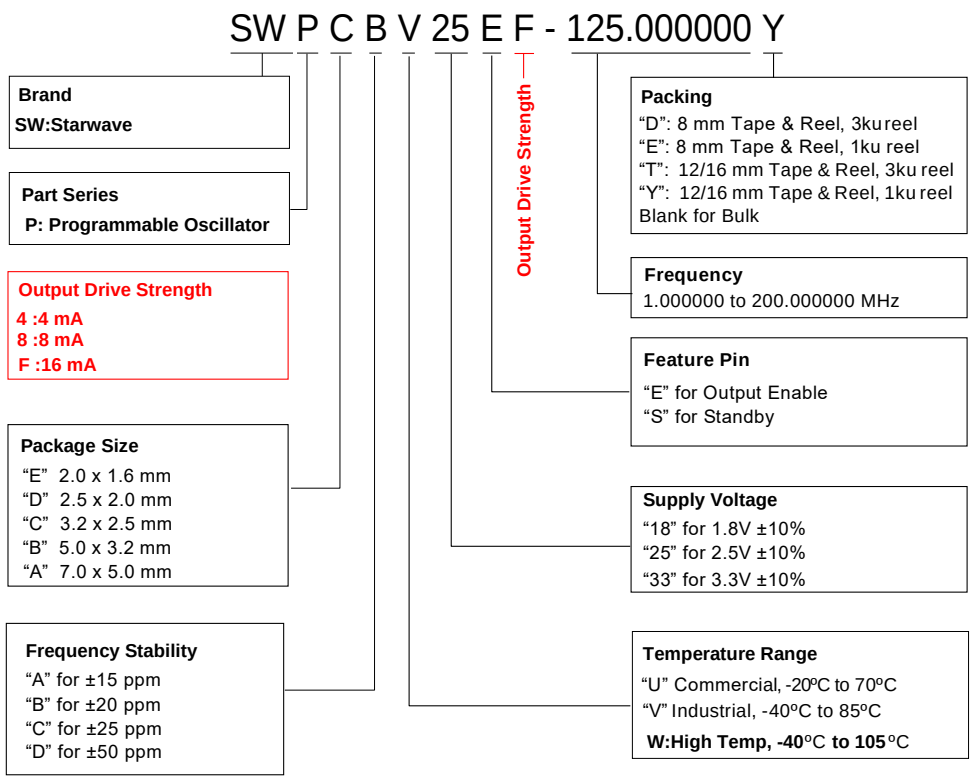


Table 13. Ordering Codes for Supported Tape & Reel Packing Method

Device Size (mm x mm)	16 mm T&R (3ku)	16 mm T&R (1ku)	12 mm T&R (3ku)	12 mm T&R (1ku)	8 mm T&R (3ku)	8 mm T&R (1ku)
2.0 x 1.6	–	–	–	–	D	E
2.5 x 2.0	–	–	–	–	D	E
3.2 x 2.5	–	–	–	–	D	E
5.0 x 3.2	–	–	T	Y	–	–
7.0 x 5.0	T	Y	–	–	–	–