

SMD Crystal Oscillators

CMOS Output

2.5x2.0x0.8mm A22 Series



Features

- Ultra small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to high frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8 V~3.3 V.
- High stability, low jitter , low power consumption.
- RoHS Compliant / Pb Free.



Crystals specifications

ITEMS/TYPE	A22
Frequency Range	1~54MHz
Output Type	CMOS
Output Load	15 pF, or specify
Oscillation Mode	Fundamental
Supply Voltage	1.8V~3.3V, or specify
Frequency Stability	± 20 ppm , or specify
Operating Temperature Range	-40 ~ +85℃ , or specify
Storage Temperature Range	-55 ~ +125 ℃
Voltage Vol (Max.)/Voltage Voh (Min.)	VOH=90%Vdd / VOL+10%Vdd
Rise (Tr) / Fall (Tf) Time	8ns Max.
Current Consumption	10mA Max.
Symmetry	45 ~ 55 %
Start-up Time	5ms Max.
Phase Jitter (12 KHz ~ 20 MHz)	1ps Max.
Aging (at 25℃)	± 3 ppm / year Max.
Reliability Standard	AEC-Q100
Packing Unit	3000pcs/Reel

Dimensions and patterns(unit:mm)

