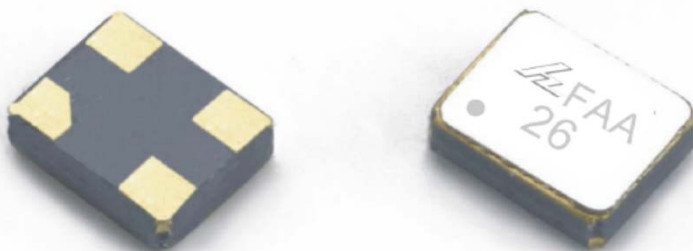


Oscillator (2.0x1.6) SMD Type



Application of Crystal

- ▶ PLL circuit
- ▶ Broad casting equipment
- ▶ AFC circuit
- ▶ Sonet/SDH.ATM
- ▶ FM modulator



Features

- ▶ High reliability for low cost
- ▶ Low-priced SMD-clock-oscillator
- ▶ Frequency stability from ± 20 to ± 50 ppm available
- ▶ Supply voltage of 1.8, 2.5, 2.8, 3.3 and 5.0 VDC deliverable
- ▶ Extended temperature range -40°C to $+105^{\circ}\text{C}$
- ▶ Rohs compliant / Pb free



Electrical Specification

PARAMETERS	CHARACTERISTICS	UNITS
Frequency Range	1.0 ~ 60.0	MHz
Frequency Stability	$\pm 30, \pm 50$	ppm
Operating Temperature Rang	0 ~ 70	$^{\circ}\text{C}$
Storage Temperature Range	$-40 \sim +85$	$^{\circ}\text{C}$
Supply Voltage	1.8 ~ 5.0	V
Current	15 max.	mA
Output	CMOS/TTL	-
Output Symmetry	45 ~ 55% ($V_T=1/2V_{DD}$)	-
Rise Time/Fall Time	10 max.	ns
Start-Up Time	10 max.	ms

