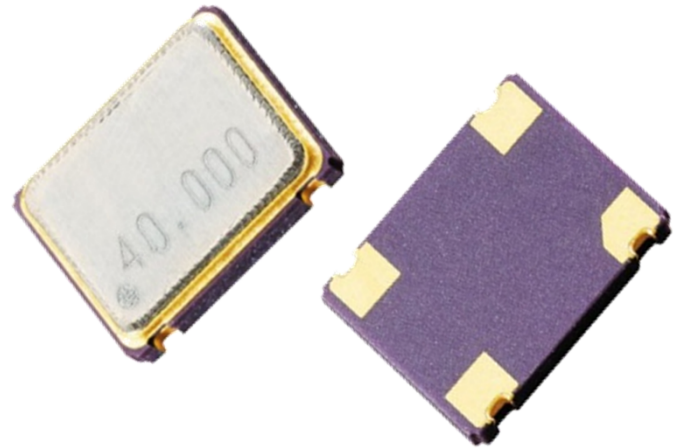


OSC (7.0X5.0) SMD SIZE



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 ± 100 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

SMD-OSCILLATOR SERIES CG7 (FL-SL) (SL-GA8) G-N9				
PACKAGE		Ceramic package 7.0 x 5.0x 1.6 mm ³		
FREQUENCY RANGE		1.0 ~ 160.0 MHz		
FREQUENCY STABILITY		-10/+60°C ~ -10/+70°C	$\pm 20 \sim \pm 100$ ppm	
		-20/+70°C ~ -40/+85°C	$\pm 25 \sim \pm 100$ ppm	
		-40/+105°C	$\pm 50 \sim \pm 100$ ppm	
The frequency stability contains the frequency tolerance at 25°C, the temperature stability, supply voltage change and load change. The aging is ± 3 ppm max. per year.				
OPERATING TEMPERATURE RANGE		-10/+60°C ~ -40/+105°C		
STORAGE TEMPERATURE RANGE		-55/+125°C		
INPUT	VOLTAGE	+1.8 VDC ± 0.2 VDC		
	CURRENT	1.0 ~ 4.0 MHz=10 mA max. 4.0 ~ 45.0 MHz=30 mA max. 45.0 ~ 112.0 MHz=45 mA max. 112.0 ~ 160.0 MHz=90 mA max.		
Lower input currents are available on request. Please indicate the special value when required.				
OUTPUT	SYMMETRY	STANDARD	40/60%	
		OPTION	45/55%	
	RISE AND FALL TIME		5ns typical / 10ns max.	
	"0" LEVEL	TTL 1.8 VOLT	0.4 V max.	
			+2.4 V min.	
	"1" LEVEL	CMOS 1.8 VOLT	10% VDD min.	
90% VDD max.				
LOAD	TTL	1 ~ 5 TTL		
	CMOS	15 pF max.		
PIN 1	STANDARD	WITHOUT ENABLE / DISABLE FUNCTION		
	OPTION	WITH ENABLE / DISABLE FUNCTION		
DELIVERY FORM		Tape & Reel / 1.000 pcs. per reel, lower QTY possible		

