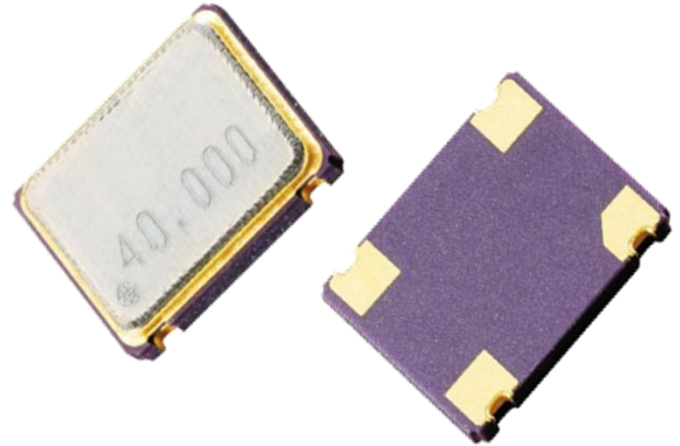


Application of Crystal

- ▶ 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) (GL) GA8 (GN)				
PACKAGE		Ceramic package 7.0 x 5.0x 1.6 mm ³		
FREQUENCY RANGE		1.0 ~ 156.25MHz		
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 ~ 156.25 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		

