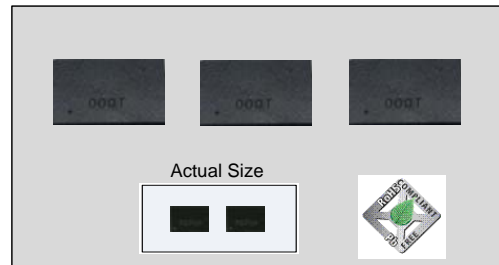


### Features

- 1 MHz to 125 MHz Frequency range
  - Meets or Exceeds performance of Epson SG-8002 family
  - Consumer electronics, Automation
  - Greater immunity from interference and ultra-reliable start up
  - Output driver strength reduces EMI
  - RoHs compliant and lead-free
  - Ultra short lead time
- These highly reliable oscillators are completely quartz free



### Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Output Frequency Range	f	1	-	125	MHz	
Frequency Tolerance	F_tol	-50	-	+50	ppm	Inclusive of: Initial tolerance, operating temperature, rated power supply voltage change, load change, aging, shock and vibration
		-100	-	+100	ppm	
Storage Temperature Range		-55	-	+125	°C	
Operating Temperature Range	T_use	-20	-	+70	°C	Extended Commercial
		-40	-	+85	°C	Industrial
Supply Voltage	Vdd	1.70	-	1.90	V	
Current Consumption	Idd	-	-	19	mA	15pf load, f = 65 MHz
Standby Current	I_std	-	-	50	µA	output is Weakly Pulled Down, ST = GND
		45	-	55	%	f = 1 MHz -65 MHz, 15pf load
Symmetry	SYM	40	-	60	%	f = 65 MHz -125 MHz, 15pf load
Rise/Fall Time	Tr, Tf	-	1.0	2	ns	20% - 80% Vdd level
Output Voltage High	VOH	90	-	-	%Vdd	IOH = -5mA
Output Voltage Low	VOL	-	-	10	%Vdd	IOL = 5mA
Input Voltage High	VIH	70	-	-	%vdd	Pin 1, OE or ST
Input Voltage Low	VIL	-	-	30	%vdd	Pin 1, OE or ST
Output Load	L_cmos	-	-	15	pF	
Start up Time	T_osc	-	12	50	ms	Time from minimum Vdd
Peak-peak Period Jitter	T_pk	-	-	±185	ps	f = 24 MHz
		-	-	±100	ps	f = 100 MHz

### Dimensions and Land Pattern

**Dimensions (Unit: mm)**

Note: XXXX top marking denotes manufacturing lot no.

**Recommended Land Pattern (Unit: mm)**

Note: A capacitor of value 0.1µF between Vdd and GND is recommended

Pin Map	
Pin	Connection
1	OE/ST
2	GND
3	Output
4	Vdd

Pin #1 Functionality	
<b>OE</b>	
H or Open; specified frequency output	
L: output is high impedance	
<b>ST</b>	
H or Open; specified frequency output	
L: output is low level (weak pull down)	

### Part No. Guide- How to Order

