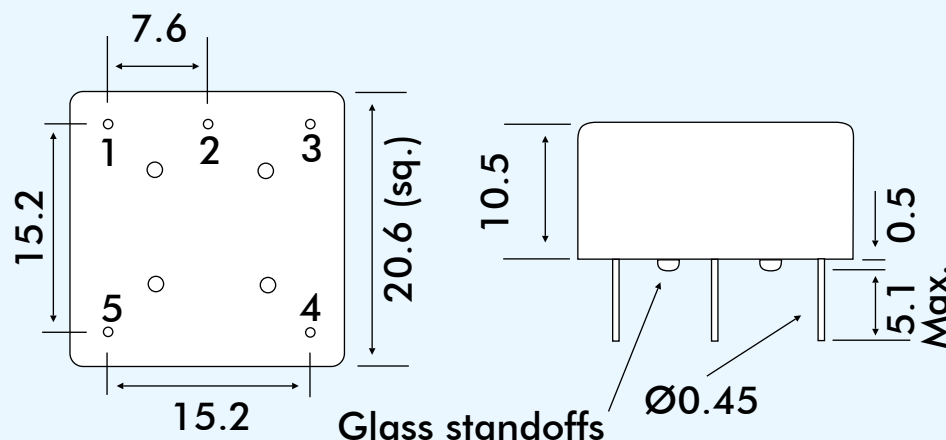


- 20.6 x 20.6 x 11.0mm package
- Through-hole metal package
- +3.3V, +5.0V supply voltage options
- Electronic Frequency Tuning as standard


GENERAL SPECIFICATION

Output Waveform		Square Wave			
Supply Voltage		+3.3V±5%		+5.0V±5%	
Frequency Range		5.0 ~ 40.0MHz Standard Frequency: 10.000MHz			
Initial Calibration Tolerance		±500ppb (max.)			
		Vcon = +1.65V		Vcon = +2.5V	
Crystal Cut		SC-cut or IT-cut			
Frequency Stability	vs Temperature	±5ppb max. over 0°C to +70°C			
		±10ppb max. over -30°C to +70°C			
		±10ppb max. over -40°C to 85°C			
	vs Voltage Change	±0.5ppb max. for ±5% voltage change			
	vs Warm-up Time (+25°C)	3 min. max., within ±50ppb of its reference frequency			
	vs Aging	±0.5ppb max. after 30 days, ±50ppb max. first year, ±300ppb max. over 10 years			
Voltage Control (EFC)	Frequency Deviation Range	±0.5ppm min., ±2ppm max., reference to Fo at +25°C and over temp. range			
	Control Voltage Range	+1.65±1.65V		+2.5±2.5V	
	Transfer Function	Positive: Increasing control voltage increases output frequency			
	Input Impedance	100k Ω min.			
	EFC Linearity	±10% max.			
Power Dissipation (at +25°C)		1.3W max. at steady state; 800mA max. at turn-on			
Output	Load	15pF			
	Output Logic High	+2.4V min.		+3.5V min.	
	Output Logic Low	+0.5V max.		+0.5V max.	
	Duty Cycle	50±5% at +2.0V			
	Rise and Fall Time	7nsec. max (20% ~ 80% of waveform)			
	Phase Noise Offset (typ. at 10.0MHz)	1Hz	10Hz	1kHz	10kHz
		-115dBc	-135dBc	-145dBc	-150dBc

PACKAGE OUTLINE

EOC19T Pin Connections

- 1: Supply Voltage
- 2: RF Output
- 3: Ground (case)
- 4: Voltage Control EFC
- 5: Not connected

EOC18T Pin Connections

- 1: Voltage Control EFC
- 2: Not Connected
- 3: Ground (case)
- 4: RF Output
- 5: Supply Voltage

ORDERING/PART NUMBER GENERATIONExample: EOC18T3 - 25.000MHz - 500/0 + 70

Series Designation

EOC18
EOC19

Output Waveform

T = CMOS

Supply Voltage

3.3V = 3
5.0V = 5

Frequency

Frequency Stability

Operating Temperature Range