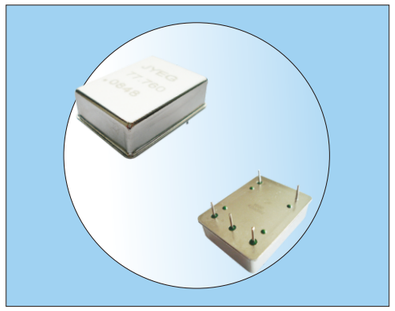
Oven Controlled Crystal Oscillator/OCXO-3627



Features

- AT/SC Cut
- JYEG Part Number: JYOC36
- Low Aging,Compact Package
- APPLICATIONS:
  PCS Base Station,Cellular Base Station
  Synthesizer,Digital Switching
  Measurement Equipment

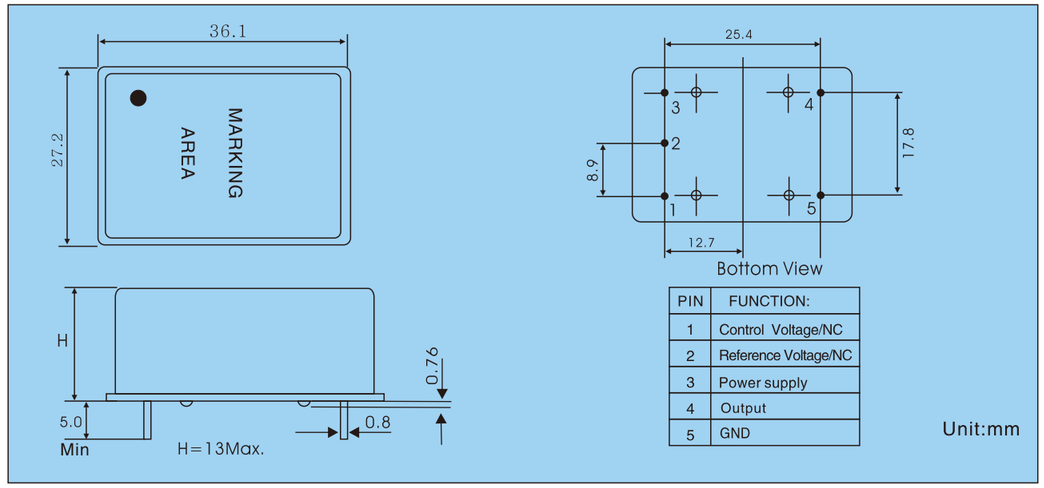
TYPICAL SPECIFICATIONS

Type	OCXO3627
Frequency Range	2~100MHz
Standard Frequency	10、12.8、20、38.88、100MHz
Frequency Accuracy	±0.2ppm(center control voltage)
Frequency Stability vs Temperature	See Table 1
Aging(AT Cut)	± 2ppb/day,first year ±200ppb,10 years ±2ppm
(SC Cut)	±1ppb/day,first year ±100ppb,10years ±0.5ppm
Short term stability	$1x10^{-11}$/s (10MHz SC)
Output Type and Load Characteristics	See Table 2
Frequency Stability vs Load	±1ppb vs ±10% load change (10MHz sc)
Supply Voltage	+3.3VDC,+5.0VDC,+12.0VDC
Frequency Stability vs Voltage	±1ppb vs ± 5%voltage change (10MHz sc)
Supply Consumption	4.0W(Max.)when warm-up;1.4 W(Max.)when static
Warm-up Time(AT Cut)	±0.2ppm,<3min
(SC Cut)	±0.1ppm,<3min
Adjustable Frequency Range(AT Cut)Internal trim	±3.0ppm
(SC Cut)	±0.7ppm
Control Voltage Range	0~3.3V 0~5V
Slope	Positive
Linearity	±10%
Phase Noise(10MHz) SC	10Hz,-120dBc/Hz
	100Hz,-140dBc/Hz
	1kHz,-145dBc/Hz
	10kHz,-150dBc/Hz
Storage Temperature Range	-40℃~+100℃

FREQUENCY STABILITY VS TEMPERATURE TABLE 1

Frequency Stability vs Temperature	Temperature Range
±50ppb(AT Cut)	0℃ – +50℃
±2ppb(SC Cut) ≤13MHz	0℃ – +50℃
±75ppb(AT Cut)	-20℃ – +70℃
±10ppb(SC Cut)	-20℃ – +70℃
±100ppb(AT Cut)	-40℃ – +75℃
±10ppb(SC Cut)	-40℃ – +85℃

OCXO-3627

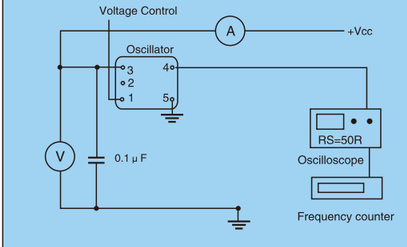


PIN	FUNCTION:
1	Control Voltage/NC
2	Reference Voltage/NC
3	Power supply
4	Output
5	GND

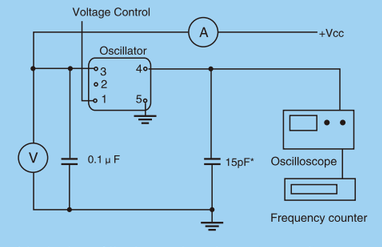
OUTPUT TYPE AND LOAD CHARACTERISTICS TABLE2

Output Waveform	HCMOS/LVCMOS	Sine Wave
Output Characteristics	Load:15PF TYP,50PF Max avialable "1" level: > 0.9VDD; "0" level: < 0.1VDD Duty cycle:45/55 Rise/fall time: < 6ns(fn < 40MHz) < 3ns(fn < 40MHz)	Load: Nominal 50 Ω Output level: > 5dBm Harmonic :<-30dB Noise suppression:<-75dB

Test Circuit-Sine Wave



Test Circuit-CMOS



* inclusive of jigging and equipment capacitance