Excequal
OCXO

OC - 14
TTL

Clip SINE WAVE,HCMOS &ACMOS

APPLICATIONS

- ►**SDH / SONET**
- ►**ATM**
- ►**WLL**
- ►**Measurement Equipment**

OUTLINE DIMENSIONS

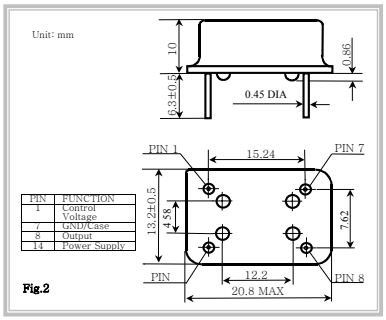


Fig.2

Pin no.	Configuration
# 1	Control Voltage
# 7	GND/Case
# 8	Output
# 14	Power Supply

ELECTRICAL SPECIFICATIONS

Frequency range	1.000MHz to 100.000MHz
Frequency Accuracy	±0.5PPM(center control voltage)
Frequency stability	(A)±0.5PPM 0 ~ +50 °C
	(B)±0.3PPM -20~+70 °C
	(C)±0.5PPM -40~ +75 °C
Aging	First year ±0.5PPM, 10 years ±3PPM
Frequency Stability vs Load	±0.05PPM vs ±10% load change
Supply Voltage	+3.3VDC, +5.0VDC
Frequency Stability vs Voltage	±0.05PPM vs ±5% voltage change 2PPM
Supply Consumption	1.5W (max.) when warm-up; 0.75W (max.) when static
Warm-up Time	±0.1PPM, <1 min
Adjustable Frequency Range	±10.0PPM
Control Voltage Range	0~5V
Slope	Positive
Linearity	±10%
Storage Temperature Range	-40~+100℃
Phase Noise(10MHz)	10Hz, -100dBc/Hz
	100Hz, -120dBc/Hz
	1kHz, -135dBc/Hz
	10kHz, -145dBc/Hz

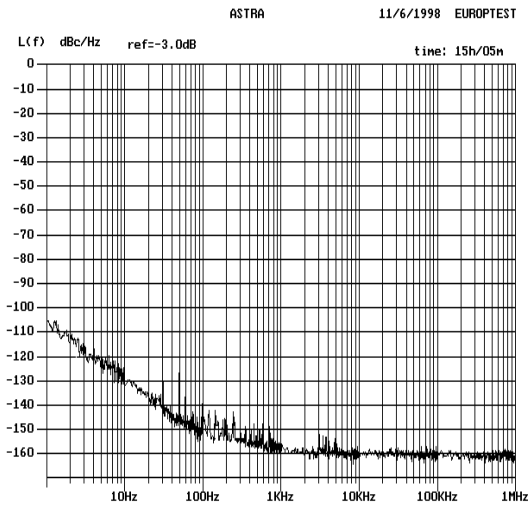
OUTPUT TYPE AND LOAD CHARACTERISTIS

Clipping Sine Wave	Load: 10kΩ/10pF Output level: >1Vp-p
TTL	Load: Max. 10 low power consumption TTL gates “1” level: >+2.4VDC; “0” level: <+0.2VDC Duty cycle: 45/55 Rise/fall time: <6ns
HCMOS	Load: Max. 10 low power consumption TTL/HCMOS “1” level: >+4.5VDC; “0” level: <+0.5VDC Duty cycle: 45/55 Rise/fall time: <6ns

FREQUENCY STABILITY VS TEMPERATURE

CODE	Frequency Stability vs Temperature	Temperature Rang
A	±0.05PPM	0~+70°C
B	±0.3PPM	-20~+70°C
C	±0.5PPM	-40~+70°C

PHASE NOISE GRAPH



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