

Temp. Controlled Oscillators

Thru Hole

ADTCXO Series (G)

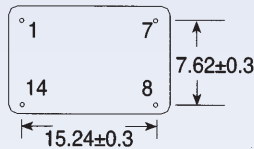
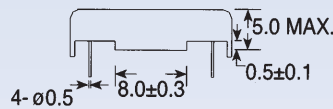
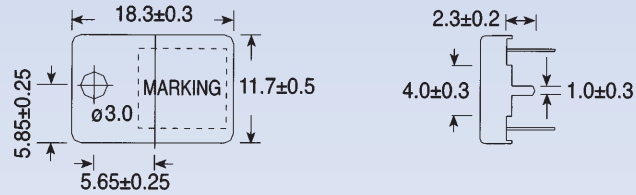
ADTCXOG



FEATURES

- Ultra miniature package suitable for portable products.
- Excellent frequency stability and aging.
- Custom requirements available.
- Application: Cellular/PCS handsets, Wireless platforms (MMDS, LMDS, WLANS).

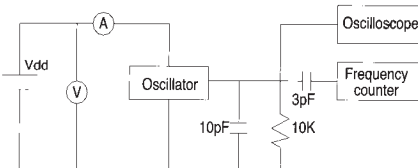
UNIT DIMENSION (unit: mm)



Pin Connections

- Pin 1: NC/ Vc
- Pin 7: Common and Case
- Pin 8: Output
- Pin 14: +Vdd

TEST CIRCUIT



STANDARD SPECIFICATIONS

Package Type	ADVCXOG	
Standard Frequency	9.6, 10, 12, 12.8, 13, 14.4, 15.36, 19.68, 20 MHz	
Frequency Range	9.6 ~ 35 MHz	9.6 ~ 35 MHz
Frequency Stability vs. Temperature Range	±5 ppm (0°C ~ 50°C) ±2.5 ppm (-30°C ~ 75°C)	±2.5 ppm (-15°C ~ 55°C) Custom
Frequency Stability vs. Voltage	±0.3 ppm (Vdd ±5%)	±0.3 ppm (Vdd ±5%)
Frequency Adjustment	±3 ppm min. (tuned by internal trimmer)	±3 ppm min. (tuned by internal trimmer)
Supply Voltage	Vdd = 5V	Vdd = 3V
Output Level (Clipped Sinewave)*	1.0 Vpp min.	0.8 Vpp min.
Supply Current	2 mA max.	2 mA max.
Output Load	10K Ω//10 pF	10K Ω//10 pF
Aging	±1 ppm/year	±1 ppm/year

*TTL/CMOS output level available (depended on custom requirement).

SEE PAGE 54 FOR PART NUMBERING GUIDE

XTAL

OSC.

VCXO
VCO

TCXO
VCTCXO

FLTR

RES

IND

TCXO / VCTCXO

Temp. Controlled Oscillators

SMD & Thru Hole

ADVTCXO & ADVCTCXO Series



Package Type	ADTCXOH	SMD	pg55	ADVTCXOI	SMD	pg56
	ADTCXOI	SMD	pg55	ADVTCXOJ	SMD	pg56
	ADTCXOJ	SMD	pg55	ADVTCXOK	SMD	pg56
	ADTCXOK	SMD	pg55	ADVTCXOL	SMD	pg56
	ADTCXOL	SMD	pg55	ADTCXOG	Thru Hole	pg57
	ADVTCXOH	SMD	pg56	ADVCTCXOG	Thru Hole	pg58
Frequency Stability vs. Temperature	$\pm 5\text{ppm}$ ($0^{\circ}\text{C}\sim 50^{\circ}\text{C}$)		A	$\pm 2.5\text{ppm}$ ($-30^{\circ}\text{C}\sim 75^{\circ}\text{C}$)		C
	$\pm 2.5\text{ppm}$ ($-15^{\circ}\text{C}\sim 55^{\circ}\text{C}$)		B	Custom		D
Output	TTL		A	CMOS Compatible		C
	CMOS		B	Clipped SINEwave		D
Frequency Deviation	No Connection		BLANK	$\pm 10\text{ppm min}$		10
	$\pm 5\text{ppm min}$		5			
Voltage	3.3V		3	5.0V		5

EXAMPLE

