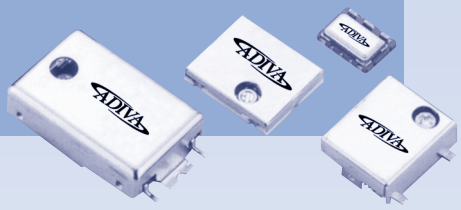
Temp. Controlled Oscillators

Surface Mount

ADTCXO Series (H, I, J, K, L)

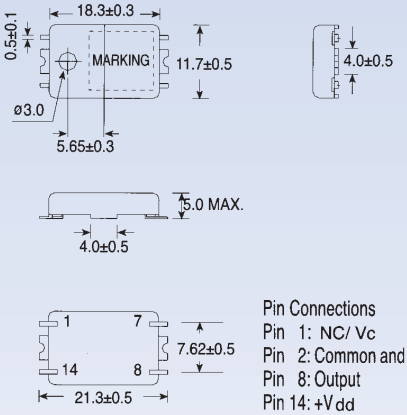
ADTCXOH-L



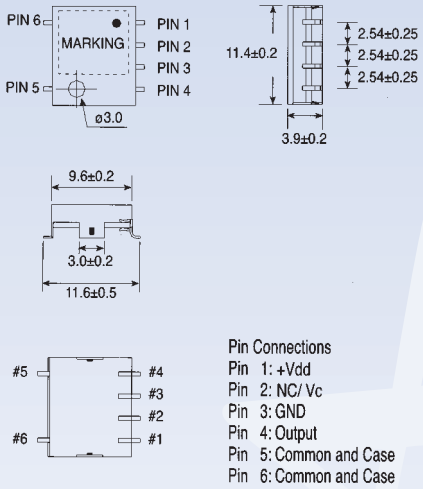
FEATURES

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

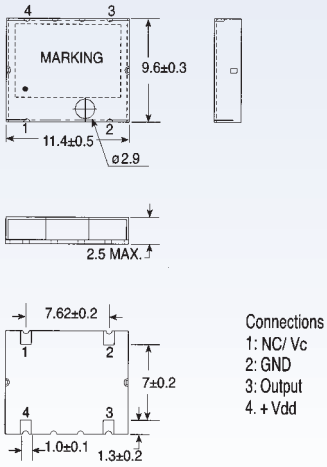
ADTCXOH (unit: mm)



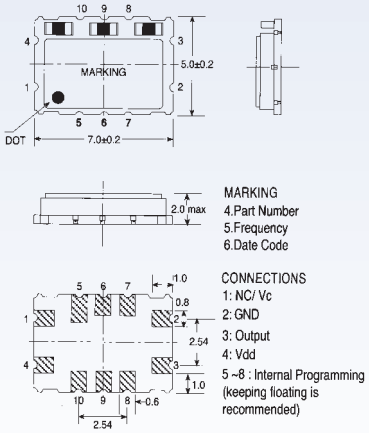
ADTCXOI (unit: mm)



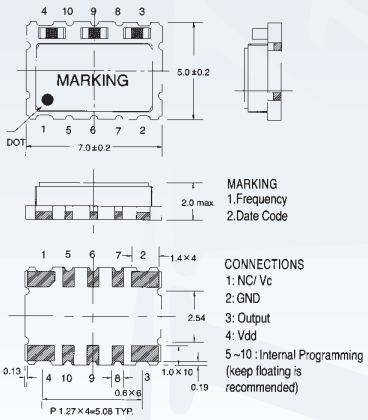
ADTCXOJ (unit: mm)



ADTCXOK (unit: mm)

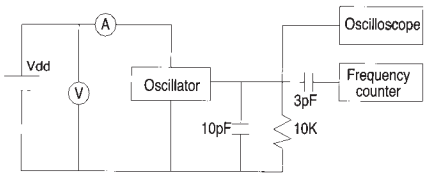


ADTCXOL (unit: mm)



No-clean process is recommended for this part

TEST CIRCUIT



STANDARD SPECIFICATIONS

Package Type	ADVCXOH, ADVCXOI, ADVCXOJ, ADVCXOK, ADVCXOL	
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).

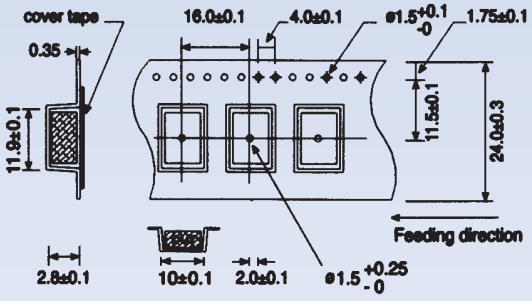
SEE PAGE 54 FOR PART NUMBERING GUIDE

Temp. Controlled Oscillators

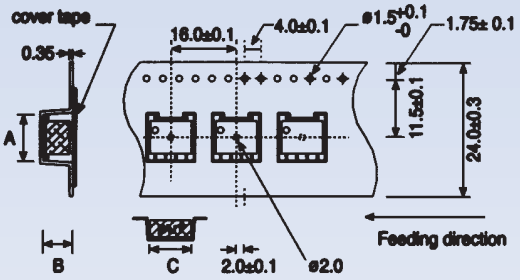
Surface Mount

TAPE SPECIFICATIONS (unit mm)

ADTCXOH/ADVCTCXOH

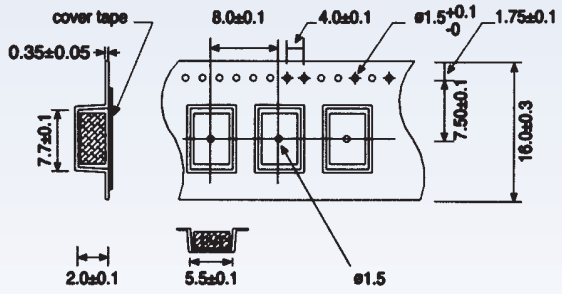


ADTCXOI/ADVCTCXOI

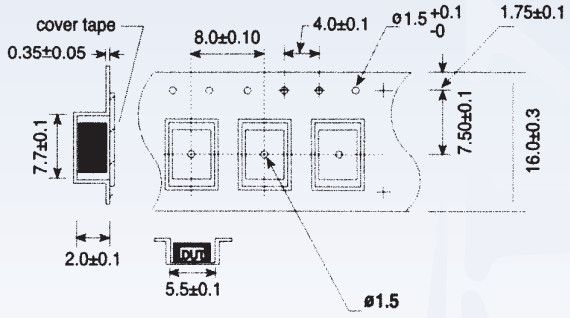


PACKAGE TYPE	A	B	C
ADTCXOI/ADVCTCXOI	12.2±-0.1	4.4±-0.1	12.0±-0.1

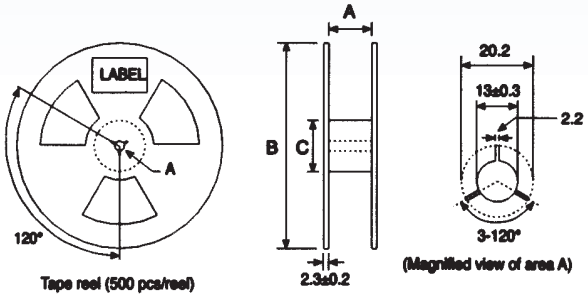
ADTCXOJ/ADVCTCXOJ



ADTCXOK/ADVCTCXOK ADTCXOL/ADVCTCXOL



REEL PACKING (unit mm)



PACKAGE TYPE	A	B	C
ADTCXOH/ADVCTCXOH	32.5±-0.3	330±-1.0	100±-0.3
ADTCXOI/ADVCTCXOI/ ADTCXOJ/ADVCTCXOJ	24.5±0.3	330±-1.0	100±-0.3

ADTCXOK/ADVCTCXOK/ADTCXOL/ADVCTCXOL refer to ADOSM-576 series

SEE PAGE 54 FOR PART NUMBERING GUIDE

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

EXAMPLE