

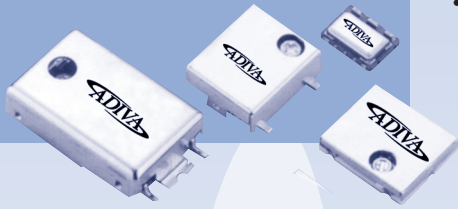
# Voltage & Temp. Controlled OSC.

Surface Mount

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



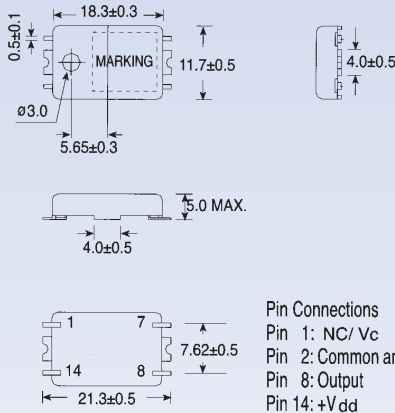
## ADVCTXOH-L



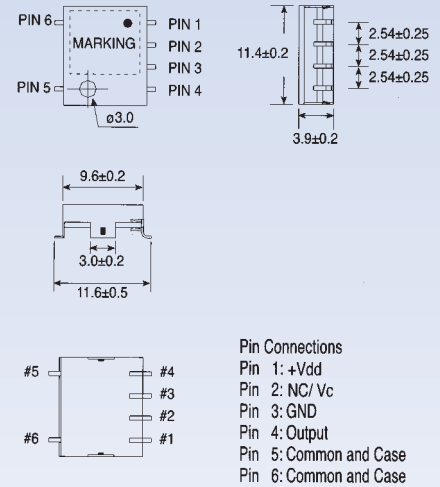
### FEATURES

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

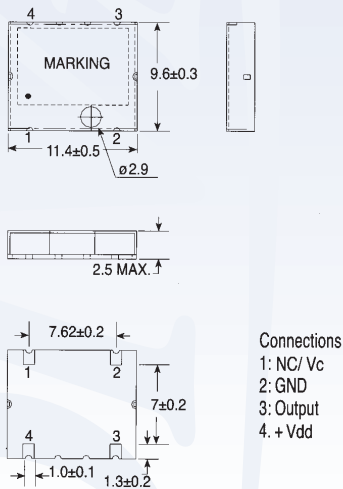
#### ADVCTXOH (unit: mm)



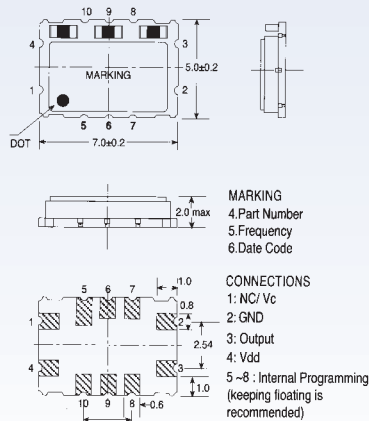
#### ADVCTXOI (unit: mm)



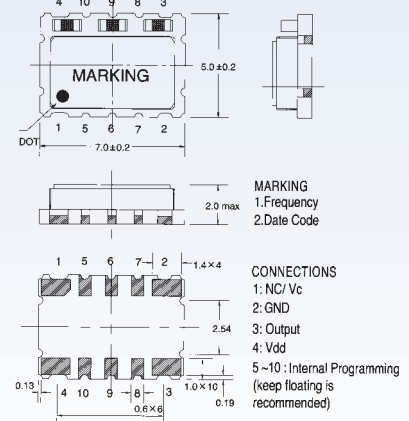
#### ADVCTXOJ (unit: mm)



#### ADVCTXOK (unit: mm)



#### ADVCTXOL (unit: mm)

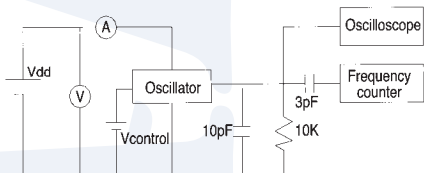


### STANDARD SPECIFICATIONS

No-clean process is recommended for this part

Package Type	ADVCTXOH, ADVCTXOI, ADVCTXOJ, ADVCTXOK, ADVCTXOL	
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%)	
Frequency Adjustment	±3 ppm min. (tuned by internal trimmer)	±3 ppm min. (tuned by internal trimmer)
Frequency Control Range	±5 ppm min. ±12 ppm max.	1.5 ±1 Vdc
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	

### TEST CIRCUIT



# Temp. Controlled Oscillators

Surface Mount

XTAL

OSC.

VCXO  
VCO

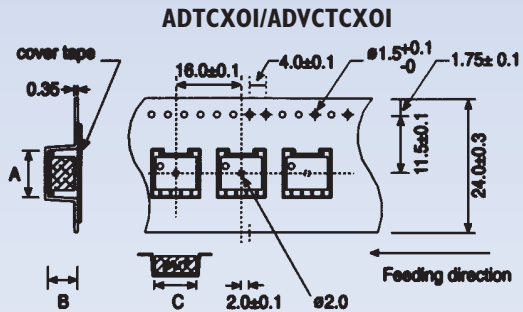
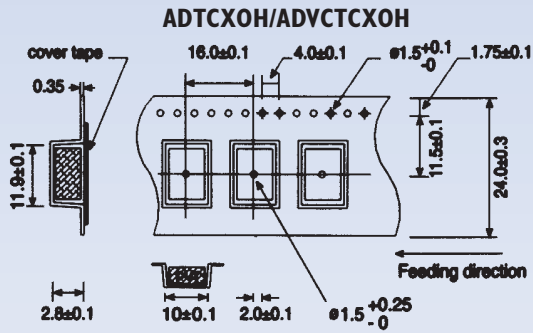
TCXO  
VCTCXO

FLTR

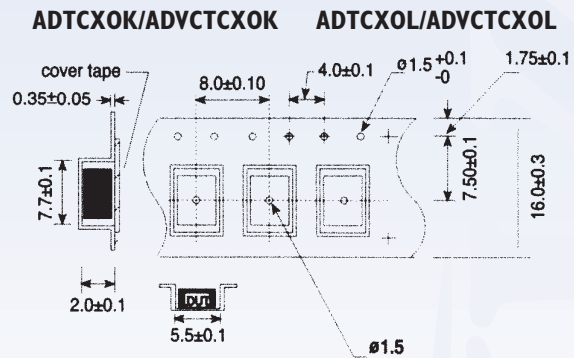
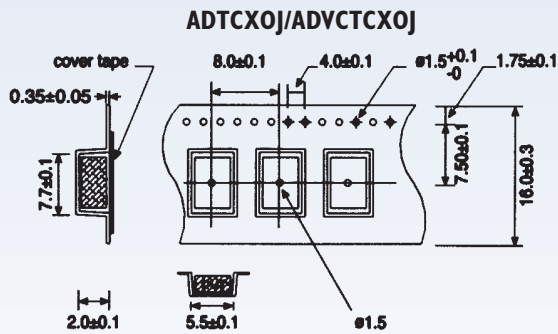
RES

IND

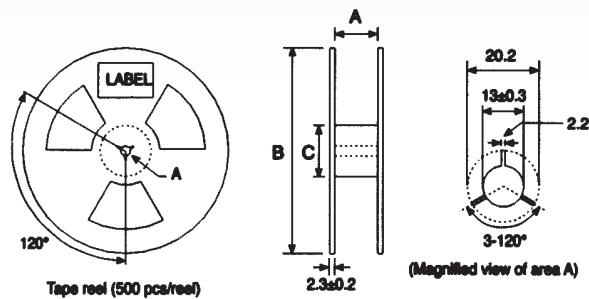
## TAPE SPECIFICATIONS (unit mm)



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



## 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

TCXO/VCTCXO

# Temp. Controlled Oscillators

SMD &amp; Thru Hole

ADVTCXO &amp; ADVCTCXO Series



<b>Package Type</b>	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
<b>Frequency Stability vs. Temperature</b>	$\pm 5\text{ppm}$ ( $0^{\circ}\text{C}\sim 50^{\circ}\text{C}$ )		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
<b>Output</b>	TTL		A	CMOS Compatible		C
	CMOS		B	Clipped SINEwave		D
<b>Frequency Deviation</b>	No Connection		BLANK	$\pm 10\text{ppm min}$		10
	$\pm 5\text{ppm min}$		5			
<b>Voltage</b>	3.3V		3	5.0V		5

## EXAMPLE

