

# ECS-TXO-3225-147.4-TR Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	ECS-TXO-3225-147.4-TR-DG
Manufacturer	<a href="#">ECS Inc.</a>
Manufacturer Product Number	ECS-TXO-3225-147.4-TR
Description	XTAL OSC TCXO 14.7456MHZ HCMOS
Detailed Description	14.7456 MHz TCXO HCMOS Oscillator 3.3V 4-SMD, No Lead



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

ECS-TXO-3225-147.4-TR

Series:

ECS-TXO-3225

Base Resonator:

Crystal

Frequency:

14.7456 MHz

Output:

HCMOS

Frequency Stability:

±2.5ppm

Operating Temperature:

-30°C ~ 85°C

Current - Supply (Max):

6mA

Mounting Type:

Surface Mount

Size / Dimension:

0.126" L x 0.098" W (3.20mm x 2.50mm)

Current - Supply (Disable) (Max):

-

Manufacturer:

ECS Inc.

Product Status:

Active

Type:

TCXO

Function:

-

Voltage - Supply:

3.3V

Absolute Pull Range (APR):

-

Spread Spectrum Bandwidth:

-

Ratings:

-

Package / Case:

4-SMD, No Lead

Height - Seated (Max):

0.039" (1.00mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



# ECS-TXO-3225 HCMOS TCXO

[Request a Sample](#)

ECS-TXO-3225 (3.3V) HCMOS SMD TCXO and ECS-VTXO-3225 (3.3V) HCMOS SMD VC-TCXO are ideal for portable, wireless applications where stability is critical.

## OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- HCMOS TCXO/VC-TCXO
- 3.2 x 2.5 mm Footprint
- PbFree/RoHS Compliant
- Peak solder temp +260°C (10 sec)
- MSL 1
- Lead Finish Au

Parameters	Conditions	ECS-TXO-3225			Units
		MIN	TYP	MAX	
Frequency Range		8.192		40.000	MHz
Operating Temperature	* Standard	-30		+85	°C
Storage Temperature		-40		+90	°C
Input Voltage	VDD	+3.135	+3.3	+3.465	VDC
Frequency Stability	Vs. Temp (-30 ~ +85°C)			±2.5	PPM
	Vs. Supply Change (±5%)			±0.3	PPM
	Vs. Load Change (±5%)			±0.3	PPM
	Vs. Aging/Year			±1.0	PPM
Frequency Tolerance	@ +25°C ±2°C			±1.5	PPM
Current Consumption				6.0	mA
"0" Level	VOL			0.5	VDC
"1" Level	VOH	80% VDD			VDC
Output Symmetry	@50% VDD Level			40/60	%
Rise and Fall Times	10% VDD to 90% Level			10	ns
Output Load	CMOS			15	pF
Start-up Time				2.0	mS
Phase Noise	@ 1 KHz Offset			-135	DBc/Hz
ECS-VTXO-3225 Option					
Control Voltage	Pin 1	+0.15	+1.65	+3.15	VDC
Pullability		±5			PPM

### Part Numbering Guide: Example ECS-TXO-3225-250-TR

ECS	Series	Frequency Abbreviations	Stability Tolerance	Temperature	Packaging
ECS	TXO-3225 = TCXO VTXO-3225 = VC-TCXO	250 = 25.000 MHz	<u>Standard</u> Blank = ±2.5 ppm  <u>Custom Options</u> B = ±1.5 ppm C = ±1.0 ppm	<u>Standard</u> Blank = -30 ~ +85°C  <u>Custom Options</u> * N = -40 ~ +85°C	TR = Tape & Reel

\* Consult Factory for availability of ±1 ppm -40 ~ 85°C



# ECS-TXO-3225 HCMOS TCXO



## Package Dimensions (mm)

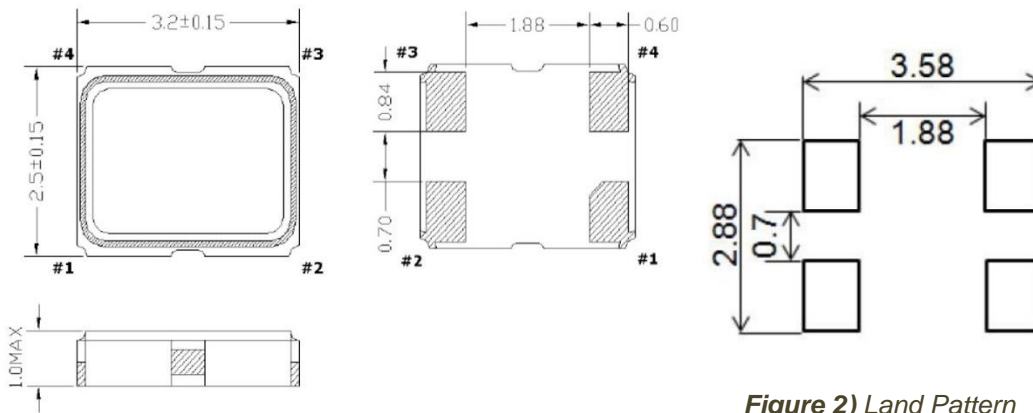


Figure 1) Top, Side, and Bottom views

Figure 2) Land Pattern

Pin Connections	
#1	N/C or V <sub>CONT</sub>
#2	Ground
#3	Output
#4	VDD

Developed Frequencies	
* Abbreviation	Frequency (MHz)
100	10.000
120	12.000
122.8	12.288
147.4	14.7456
160	16.000
200	20.000
250	25.000
270	27.000



## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we strictly control the quality of products and services. Welcome your RFQ to

Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.