

WVO-TO-8E Series VCO
Product Data Sheet

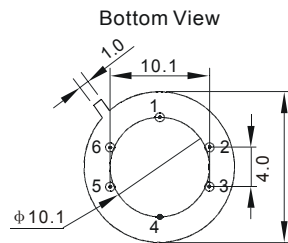
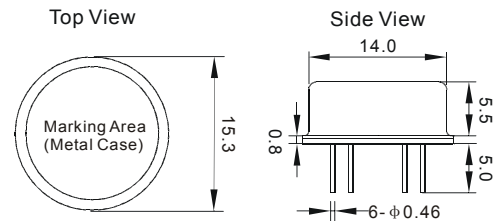
INNOVATION BEYOND IMAGINATION

Features

- Wide Frequency Range from 10MHz to 15GHz
- Small Size, Light Weight, Compatible Package
- Superior Stability in Response to Ambient Temperature and Load Variations
- Extremely Linear and Accurate Tuning
- High Tuning Speed
- Excellent Low Phase Noise Characteristics(C/N,S/N)
- High Performance and High Reliability
- Custom Designs Available

Applications

- Wireless Communication and Test Equipment
- Radar Receivers and Satellite Systems
- Base Stations
- Analog and Digital Radio Systems
- Industrial Controls and Noise Measurements

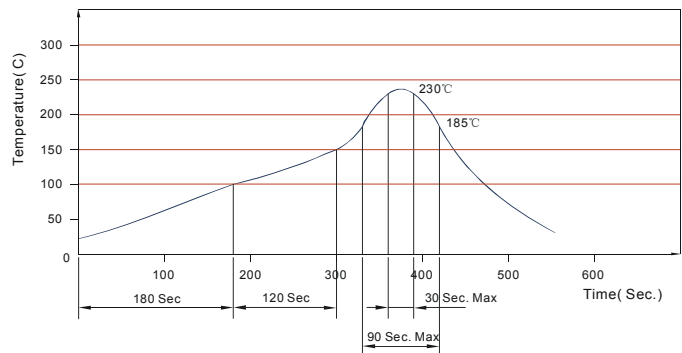


PIN CONNECTIONS:
 #1-----Vcc
 #2-----VT2 or NC
 #3-----VT
 #4-----GND
 #5-----Output2 or NC
 #6-----Output

Pin Alignments:

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1	Vcc
2	VT2 or NC
3	VT
4	GND
5	Output2 or NC
6	Output

Solder Profile



WVO-TO-8E Series VCO

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INNOVATION BEYOND IMAGINATION

Specification:

Parameter	Symb.	Condition	Min.	Typ.	Max.	Unit	Note
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Absolute Maximum Ratings

Storage Temp.	Ts		-55		+125	°C	
Supply Voltage	Vcc		0		15	V	
Tuning Voltage	Vt		0		20	V	

Electrical

Frequency Range	FL				1350	MHz	Vt=3.0V	All parameters for 1350MHz to 1850MHz
	FU		1850			MHz	Vt=17.0V	
Supply Voltage	Vcc			12.0		V	±0.60V	
Supply Current	Icc				30	mA	Vcc=12V	
Output Load				50		Ω		
Output Power			+2	+5	+8	dBm		
2 nd Output Power						dBm	Optional	
Output Ripple					±1.0	dB	N/A	
Tuning Voltage	Vt		3.0		17.0	V		
Tuning Sensitivity			32	40	48	MHz/V		
Input Impedance		Vt=0V,@1MHz	10			MΩ		
Pushing Figure		Vcc=12V,Ref=12V			±2.0	MHz/V		
Pulling Figure		VSWR=2,Ref=50Ω			±2.0	MHz	For all Phase	
SSB Phase Noise		1KHz 10KHz 100KHz			-80 -110 -130	dBc/Hz		
Harmonics Below Carrier					-30	dBc	2nd,3rd Harmonics	
Spurious Below Carrier					-70	dBc		
Operating Temp.	To		-40		+85	°C		
Package		Φ15.3×6.5				mm		

Environmental and Mechanical

Temperature & Humidity	Per MIL-STD-883,Method 1010,Cond.B & MIL-STD-883, Method 1011,Cond.B
Mechanical Shock	Per MIL-STD-202,Method 213,Cond.E, 30G, 11 mS, 3 cycles each plane
Vibration	Per MIL-STD-883,Method 2007,Cond.A, 5G, 30Hz to 2000Hz, 6 hours
Thermal Shock	Per MIL-STD-883,Method 1011,Cond.A, -40°C 30M to +85°C 30M, 7 days
Soldering Condition	Leads temperature 260°C for 10s max, 230°C for 30s max, SMD profile

Electrical Connections

Pin Out	Pin 1-Vcc; Pin 2-VT2 or NC; Pin 3-VT; Pin 4-GND; Pin5-Output2 or NC; Pin 6-Output
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Creating a Part Number

WVO-TO-8E - Frequency, MHz

Temperature Range

Code	Specification
A	0°C to 50°C
B	-10°C to 60°C
C	-20°C to 75°C
D	-30°C to 75°C
E	-40°C to 85°C
F	-45°C to 90°C

Supply Voltage

Code	Specification
5	5.0V±5%
8	8.0V±5%
12	12.0V±5%
	Other Options

Not all combinations are available.Consult Your Local Sales Offices.