Ultra Miniature TCXOs

OSC Series



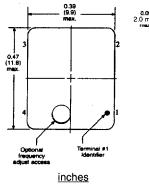
Features

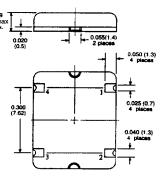
- 3.0 or 5.0 Vdc option
- Tape and reel
- Reflow solderable
- Low cost
- <2.2 mm tall
- Voltage tune option

Ideal for

 Wireless handsets PCS, GSM. Cellular, GPS

-150 dBc/Hz at 100 KHz





(mm)

*OSC-3AO 10 MHz has been designated the model T-1115 and is a standard part available from stock in high quantity

PIN 1 = VC or N/C PIN 2 = GROUND PIN 3 = OUTPUT PIN 4 = B+

			n stock in high quantity	How to order
5	PECI	FICA	TIONS	
Frequency range:		10MHz to 25 MHz		OSC - // /frequency
Stability Options: (relative to +25°C)		1 = ±1.5 ppm -20 to +70°C 2 = ±2.0 ppm -30 to +70°C 3 = ±2.5 ppm -30 to +75°C 4 = ±5.0 ppm -40 to +85°C		
Stability vs. Supply Aging: (typical)		<±0.3 ppm vs B+ of ±5% < 1.0 ppm/year at +40°C		
Input Voltage & current:		$A = +5.0 \text{ Vdc } \pm 5\% < 2.0 \text{ mA MAX}.$ $B = +3.0 \text{ Vdc } \pm 5\%$ $< 1.5 \text{ mA } (10.0 \text{ to } 16.8 \text{ MHz}).$ $< 2.0 \text{ mA } (16.8 \text{ to } 20.0 \text{ MHz}).$		
Output: (Clipped Sinewave)		+5.0 Vdc = 1.0 VP-P minimum +3.0 Vdc = 0.7 VP-P minimum		
Load:		10 KΩ/10pf		
Mechanical trim:		+3.0 ppm minimum		
Trim options:		 0 = NO VCO mechanical trim 1 = ±5.0 ppm VC & mechanical 2 = Voltage trim only ±8 ppm min. 		
Typical part number:		OSC-3B2 19.2 MHz 3 = ±2.5 ppm B = ±3.0 Vdc 2 = Voltage Tune no mechanical trimmer		
Voltage Control Input Imp	edence 100	$K\Omega$ minimum		
Supply Voltage 3.0 VDC 5.0 VDC	Control Voltage Range 0.5V to 2.5V 0.5V to 4.5V		Frequency Tolerance at 25°C ±2.0 ppm at 1.5 Vdc ±2.0 ppm at 2.5 Vdc	
Start-up Time: <10 msec (typical) to within ±1.0 ppm				
Harmonics: 2nd Harmonic > 3 dBc down 3rd Harmonic >10 dBc down Other >18 dBc down				
Phase Noise (typical OSC-3B1 14.4) -80 dBc/Hz at 10 Hz offset -125 dBc/Hz at 100 Hz -145 dBc/Hz at 1 KHz -148 dBc/Hz at 10 KHz				