

Dynamic Engineers Inc.

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J7C%%%6E!% \$\$A < n!(%\$\$A < n!5 1900-4100MHz SMD VCO_Voltage Controlled Oscillator

Features and Benefits

Frequency Range:1900-4100MHz

Supply Voltage:5V Current: 55mA Typ.

Output power: +5dBm Typ. Tuning Voltage: 0.5-18V

Phase noise: -90dBc/Hz@10KHz Operating temperature: -20°C--+70°C

Size:12.7x12.7x3.9mm Package type: SMD

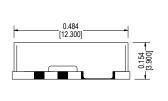


Typical Applications

SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

Mechanical Drawing & Pin Connections

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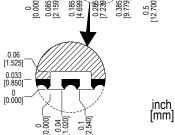
RF

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Vt

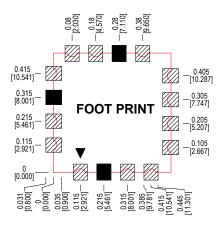
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Vcc



Drawing No:

MD140084-2



| PIN CONNECTIONS | | | | |
|-----------------|--------|--|--|--|
| 2 | Vt | | | |
| 10 | RF Out | | | |
| 14 | Vcc | | | |
| Others | GND | | | |



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Specifications

| Parameter | | Units | Min. | Typical | Max. |
|--------------------------------------|----------------|----------|------|---------|------|
| Operating Frequency Range | | MHz | 1900 | | 4100 |
| Power Supply (Vcc) | Voltage | Vdc | | +5 | |
| | Current | mA | | 55 | |
| Output Power | | dBm | | +5 | |
| Output Impedance | | Ω | | 50 | |
| Phase Noise @10kHz offset | | dBc / Hz | | -90 | |
| Phase Noise | @100kHz offset | dBc / Hz | | -111 | |
| Tuning Voltage (Vt) | | V | 0.5 | | 18 |
| Tuning Voltage Sensitivity (Kv) | | MHz / V | | 75-250 | |
| 2 nd Harmonic Suppression | | dBc | | -19 | |
| Pushing Figure | | MHz / V | | 3.5 | |
| Pulling Figure | | MHz | | 3 | |
| Input Capacitance | | pF | | 100 | |
| Operating Temperature Range | | °C | -20 | | +70 |