

Product Features

- RF frequency: 13.32 to 15.20 GHz
- Pout: 8 dBm
- Phase Noise: -112 dBc/Hz @100 kHz Typ.
- Package Size: 32-pin, X=5.0 mm, Y=5.0 mm
- DC Power: 5 VDC, IC=250 mA
- Vtune: 2-13V

Application

- Point to Point Radio
- Instrumentation
- SATCOM
- Military Radar, EW

Product Description

The TMC928D is a GaAs/InGaP Heterojunction Bipolar Transistor (HBT) MMIC VCOs. The TMC928D has built-in integrate resonator, negative resistance devices, and varactor diodes. Due to the VCO's monolithic IC structure, the VCO's phase noise performance is excellent over temperature, shock, and process variations. Power output is +8 dBm typical from a +5V supply voltage. The TMC928D voltage-controlled oscillator can be offered as a packaged part as TMC928. The leadless QFN 5x5 mm surface mount package requires no external matching components.

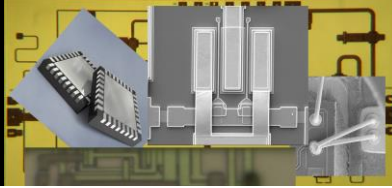
Electrical Performance : Ta = 25 °C, VCC=+5V, ICC=250mA

| | min | Typ | Max | Units |
|---|-------|------|------|--------|
| Frequency | 13.32 | | 15.2 | GHz |
| Power Output | 3 | 8 | 10 | dB |
| SSB Phase Noise @ 100 kHz Offset, Vtune= +5V | | -112 | | dBc/Hz |
| Tune Voltage | 2 | | 13 | V |
| Tune Port Leakage Current (Vtune= 13V) | | | 10 | uA |

TMC928D

13.32 – 15.20 GHz

VCO



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