

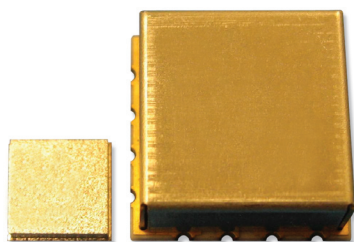
RFVC975X Series

Voltage Controlled Oscillators for Cellular Infrastructure



The RFVC975X devices are a series of high-performance voltage controlled oscillators designed for use in cellular infrastructure transceivers. Each of these VCOs come in an extremely compact 6.0 x 6.0 mm overmolded package utilizing RFMD's patented MicroShield™ Integrated RF Shielding technology which provides excellent RF isolation. The RFVC975X platform meets the stringent electrical requirements for all cellular air interface standards, including GSM/EDGE. This flexible platform allows RFMD to quickly turn custom samples.

| Frequency (MHz) | V _{TUNE} (V) | 100 kHz Offset (dBc/Hz) | P _{OUT} (dBm) | 2nd Harmonic (dBc) | V _{CC} (V) | I _{CC} (mA) | Part Number |
|-----------------|-----------------------|-------------------------|------------------------|--------------------|---------------------|----------------------|-------------|
| 795 to 858 | 1.4 to 4.85 | -134.0 | 4.0 | -15.0 | 5.25 | 30.0 | RFVC9750 |
| 1920 to 2000 | 0.5 to 4.5 | -122.0 | 0.0 | -12.0 | 5.0 | 30.0 | RFVC9751 |
| 1050 to 1086 | 1.0 to 4.0 | -134.0 | 0.0 | -10.0 | 7.5 | 25.0 | RFVC9752 |
| 1680 to 1740 | 0.5 to 4.5 | -125.0 | 0.0 | -12.0 | 5.0 | 25.0 | RFVC9753 |
| 925 to 960 | 0.5 to 4.5 | -129.0 | 0.0 | -12.0 | 5.0 | 20.0 | RFVC9754 |
| 1805 to 1880 | 0.5 to 4.5 | -123.0 | 0.0 | -12.0 | 5.0 | 22.0 | RFVC9755 |
| 1540 to 1615 | 0.5 to 4.5 | -125.0 | 0.0 | -12.0 | 5.0 | 22.0 | RFVC9756 |
| 869 to 894 | 0.5 to 4.5 | -130.0 | 0.0 | -12.0 | 5.0 | 22.0 | RFVC9757 |
| 994 to 1020 | 0.5 to 4.5 | -134.0 | 0.0 | -12.0 | 7.5 | 22.0 | RFVC9758 |
| 925 to 960 | 1.4 to 4.85 | -128.0 | 4.0 | -15.0 | 5.25 | 30.0 | RFVC9759 |



Side by Side Comparison – RFVC975X vs. Traditional Cellular Infrastructure VCO

FEATURES

- Compact size – 6.0 x 6.0 mm overmolded package
- MicroShield™ Integrated RF Shielding
- Meets electrical specifications for all cellular air interface standards
- Low power dissipation
- Flexible platform—easily and quickly customized

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