RF Modules

VCOs For Cellular Phone/Single Band 8.5x6.5

FEATURES

- VCO for mobile communication equipment TX (sending) applications. Roughly 0.5 to 2GHz frequency range, high power.
- Occupation area of component can be reduced because external pre-amp is not needed.
- Compact, low profile and light weight type (L8.5×W6.5×T1.8mm, 210mg typ.).
- · Low voltage operation, low current consumption.
- · Makes cost reduction possible.

SHAPES AND DIMENSIONS/

RECOMMENDED PC BOARD PATTERN



Р	Output
В	Power supply
С	Frequency tuning
G	GND
M	GND

RECOMMENDED REFLOW SOLDERING CONDITIONS





QVC81 Series

High Power Type

ELECTRICAL CHARACTERISTICS PART NO. : QVC811747RT-2128 APPLICATION : DCS TX(High power)

Measuring conditions : Ta=25±2°C Vcc=2.75V

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Parameter	Unit	Min. value	Typical value	Max. value
Oscillation frequency	MHz	1710	1747.5	1785
Current consumption	mA	-	25	35
Output power [at Fo]	dBm	+5	+7.5	+10
C/N ratio				
[at Fo, Offset frequency=10kHz,	dBc/Hz	_	-93	-85
B.W.=1Hz]				
Tuning sensitivity [Vt=0.7 to 1.9V]	MHz/V	80	90	100
Frequency pushing	MHz	_	±1	±2
[Vcc=2.75±0.15V]				
Frequency pulling [VSWR=2, all phases]	MHz	-	±2	±3
Spurious level	dBc	-	-15	-10
Operating temeprature range	°C	-20	_	+75
Storage temperature range	°C	-40	-	+85

PART NO. : QVC810898RT-2127

APPLICATION : GSM TX(High power)

Measuring conditions : Ta=25±2°C Vcc=2.75V

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Parameter	Unit	Min. value	Typical value	Max. value
Oscillation frequency	MHz	880	897.5	915
Current consumption	mA	_	25	35
Output power [at Fo]	dBm	+5	+7.5	+10
C/N ratio				
[at Fo, Offset frequency=10kHz,	dBc/Hz	-	-102	-85
B.W.=1Hz]				
Tuning sensitivity [Vt=0.7 to 1.9V]	MHz/V	35	45	55
Frequency pushing [Vcc=2.75±0.15V]	MHz	-	±0.5	±1
Frequency pulling [VSWR=2, all phases]	MHz	-	±1	±2
Spurious level	dBc	_	-25	–15
Operating temeprature range	°C	-20	_	+75
Storage temperature range	°C	-40	-	+85

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