RF Modules

VCOs For Cellular Phone/Dual Band 12x10

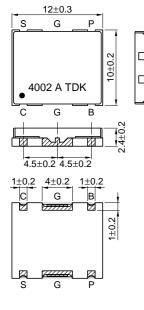
QVC12 Series

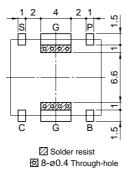
High Power Type

FEATURES

- VCO for mobile communication equipment TX (sending) applications. Roughly 0.7 to 2GHz frequency range, high power, dual mode.
- Area is greatly reduced (20% less area) in comparison to the use of two of the earlier type VCOs (QVC10 series, 10×7.5mm).
- External switch is not needed because of built-in band switch.
- Compact, low profile and light weight (L12×W10×T2.4mm, 480 mg typ.).
- Single output, low voltage operation type with built-in band switch.
- Makes cost reduction possible.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN(REFLOW)





Dimensions in mm

TERMINAL FUNCTIONS

Ρ	Output					
В	Power supply					
С	Frequency tuning					
S	Band select					
G	GND					

ELECTRICAL CHARACTERISTICS PART NO. : QVC121747RT-4002

APPLICATIONS : GSM/DCS

Measuring conditions : Ta=25±2°C Vcc=2.5V

Application		GSM			DCS		
Parameter	Unit	Min. value	Typical value	Max. value	Min. value	Typical value	Max. value
Oscillation frequency	MHz	890	902.5	915	1710	1747.5	1785
Current consumption	mA	-	33	60	_	36	45
Output power[at Fo]	dBm	+9	+11	+13	+9	+11	+13
C/N ratio [at Fo, Offset frequency=25kHz, B.W.=1Hz]	dBc/Hz	_	-108	-104	-	-105	-99
Tuning sensitivity[Vt=0.8 to 2.8V]	MHz/V	45	50	55	40	50	60
Frequency pushing[Vcc=3.6±0.2V]	MHz	-	±0.6	±1	-	±0.6	±1
Frequency pulling[VSWR=2, all phases]	MHz	-	±1.2	±2	-	±1.5	±3
Spurious level	dBc	-	-20	-15	-	-20	-15
Operating temeprature range	°C	-20	_	+70	-20	-	+70
Storage temperature range	°C	-40	_	+85	-40	-	+85

• Company and product names mentioned are registered trademarks.

81112_QVC12 990816

 $\underline{\Lambda}$ Specifications which provide more details for the proper and safe use of the described product are available upon request. All specifications are subject to change without notice.

RECOMMENDED REFLOW SOLDERING CONDITIONS

