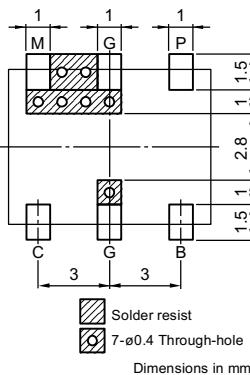
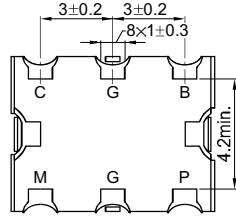
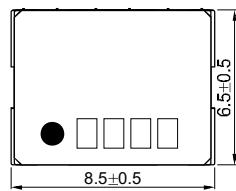


**RF Modules****VCOs**

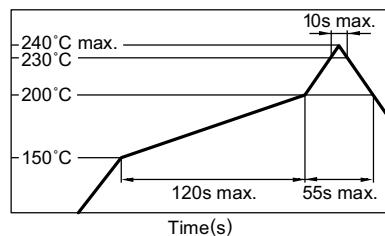
For Cellular Phone/Single Band 8.5x6.5

**QVC81 Series****High Power Type****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 (L8.5xW6.5xT1.8mm, 210mg typ.).
- Low voltage operation, low current consumption.
- Makes cost reduction possible.

**SHAPES AND DIMENSIONS/****RECOMMENDED PC BOARD PATTERN****TERMINAL FUNCTIONS**

P	Output
B	Power supply
C	Frequency tuning
G	GND
M	GND

**RECOMMENDED REFLOW  
SOLDERING CONDITIONS****ELECTRICAL CHARACTERISTICS****PART NO. : QVC811747RT-2128****APPLICATION : DCS TX(High power)**Measuring conditions :  $T_a=25\pm 2^\circ C$   $V_{cc}=2.75V$ 

Parameter	Unit	Min. value	Typical value	Max. value
Oscillation frequency	MHz	1710	1747.5	1785
Current consumption	mA	—	25	35
Output power [at $F_0$ ]	dBm	+5	+7.5	+10
C/N ratio	dBc/Hz	—	-93	-85
[at $F_0$ , Offset frequency=10kHz, B.W.=1Hz]				
Tuning sensitivity [ $V_t=0.7$ to $1.9V$ ]	MHz/V	80	90	100
Frequency pushing [ $V_{cc}=2.75\pm 0.15V$ ]	MHz	—	$\pm 1$	$\pm 2$
Frequency pulling [ $VSWR=2$ , all phases]	MHz	—	$\pm 2$	$\pm 3$
Spurious level	dBc	—	-15	-10
Operating temperature range	°C	-20	—	+75
Storage temperature range	°C	-40	—	+85

**PART NO. : QVC810898RT-2127****APPLICATION : GSM TX(High power)**Measuring conditions :  $T_a=25\pm 2^\circ C$   $V_{cc}=2.75V$ 

Parameter	Unit	Min. value	Typical value	Max. value
Oscillation frequency	MHz	880	897.5	915
Current consumption	mA	—	25	35
Output power [at $F_0$ ]	dBm	+5	+7.5	+10
C/N ratio	dBc/Hz	—	-102	-85
[at $F_0$ , Offset frequency=10kHz, B.W.=1Hz]				
Tuning sensitivity [ $V_t=0.7$ to $1.9V$ ]	MHz/V	35	45	55
Frequency pushing [ $V_{cc}=2.75\pm 0.15V$ ]	MHz	—	$\pm 0.5$	$\pm 1$
Frequency pulling [ $VSWR=2$ , all phases]	MHz	—	$\pm 1$	$\pm 2$
Spurious level	dBc	—	-25	-15
Operating temperature range	°C	-20	—	+75
Storage temperature range	°C	-40	—	+85

• Company and product names mentioned are registered trademarks.