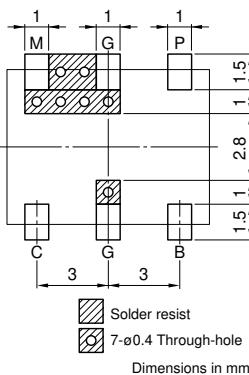
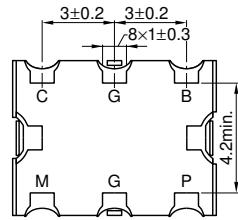
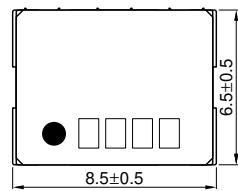


RF Modules**VCOs**

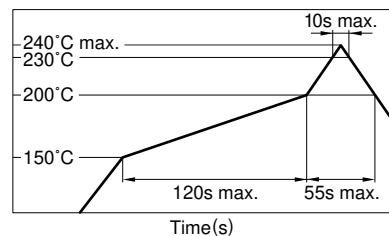
For Cellular Phone/Single Band 8.5x6.5

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 (L8.5×W6.5×T1.8mm, 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 [at F_0 , Offset frequency=10kHz, B.W.=1Hz]	dBc/Hz	—	-93	-85
Tuning sensitivity [$V_t=0.7$ to 1.9V]	MHz/V	80	90	100
Frequency pushing [$V_{cc}=2.75\pm 0.15V$]	MHz	—	± 1	± 2
Frequency pulling [VSWR=2, all phases]	MHz	—	± 2	± 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 [at F_0 , Offset frequency=10kHz, B.W.=1Hz]	dBc/Hz	—	-102	-85
Tuning sensitivity [$V_t=0.7$ to 1.9V]	MHz/V	35	45	55
Frequency pushing [$V_{cc}=2.75\pm 0.15V$]	MHz	—	± 0.5	± 1
Frequency pulling [VSWR=2, all phases]	MHz	—	± 1	± 2
Spurious level	dBc	—	-25	-15
Operating temperature range	°C	-20	—	+75
Storage temperature range	°C	-40	—	+85

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