

# RF Modules

# QVC80 Series

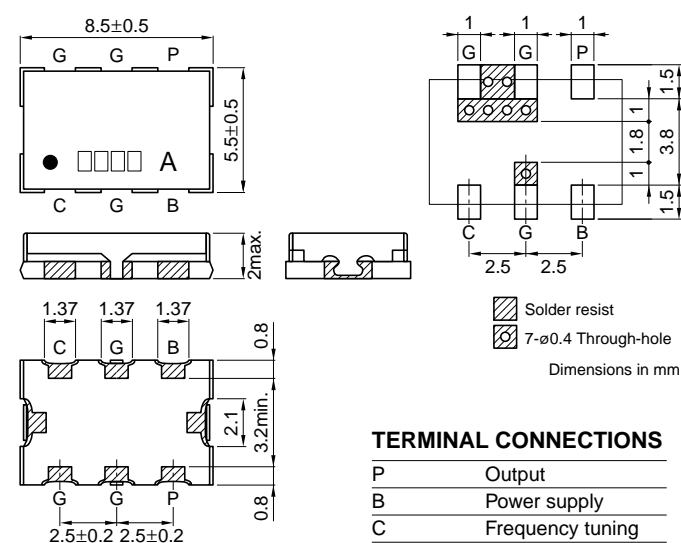
## VCOs

## For Cellular Phone/Single Band 8.5x5.5

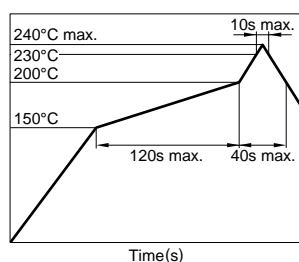
### FEATURES

- VCO for mobile communication equipment applications in the roughly 0.5 to 2.5GHz frequency range.
- Compact, low profile and light weight type(L8.5×W5.5×T1.8mm, 190mg typ.).
- Low voltage operation, low current consumption.
- Makes cost reduction possible.

### SHAPES AND DIMENSIONS/ RECOMMENDED PC BOARD PATTERN



### RECOMMENDED REFLOW SOLDERING CONDITIONS



### ELECTRICAL CHARACTERISTICS

**PART NO. : QVC800994RT-2132**

**APPLICATION : AMPS**

Measuring conditions : Ta=25±2°C Vcc=2.8V

Parameter	Unit	Min. value	Typical value	Max. value
Oscillation frequency	MHz	951	994.5	1038
Current consumption	mA	–	8.5	10
Output power [at F <sub>0</sub> ]	dBm	–2	0	+2
C/N ratio				
[at F <sub>0</sub> , Offset frequency=60kHz, B.W.=1Hz]	dBc/Hz	–	–119	–116
Tuning sensitivity [Vt=0.5 to 2.5V]	MHz/V	50	57.5	65
Frequency pushing [Vcc=2.8±0.15V]	MHz	–	±0.2	±1
Frequency pulling [VSWR=2, all phases]	MHz	–	±0.4	±1
Spurious level	dBc	–	–20	–10
Operating temperature range	°C	–25	–	+75
Storage temperature range	°C	–40	–	+85

**PART NO. : QVC802330RT-2134**

Measuring conditions : Ta=25±2°C Vcc=2.2V

Parameter	Unit	Min. value	Typical value	Max. value
Oscillation frequency	MHz	2300	2330	2360
Current consumption	mA	–	8	10
Output power [at F <sub>0</sub> ]	dBm	0	+3	–
C/N ratio				
[at F <sub>0</sub> , Offset frequency=25kHz, B.W.=1Hz]	dBc/Hz	–	–100	–97
Tuning sensitivity [Vt=0.5 to 2.5V]	MHz/V	36	40	44
Frequency pushing [Vcc=2.2±0.1V]	MHz	–	±1	±2
Frequency pulling [VSWR=2, all phases]	MHz	–	±1.5	±3
Spurious level	dBc	–	–25	–10
Operating temperature range	°C	–20	–	+75
Storage temperature range	°C	–40	–	+85

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