3.3V LV-PECL VCXO

RFV300

FEATURES

- 3.3V Operation
- High Performance
- Complementary Output
- Pb Free

Applications include SONET / SDH / ATM / WAN

PRELIMINARY

• ELECTRICAL CHARACTERISTICS

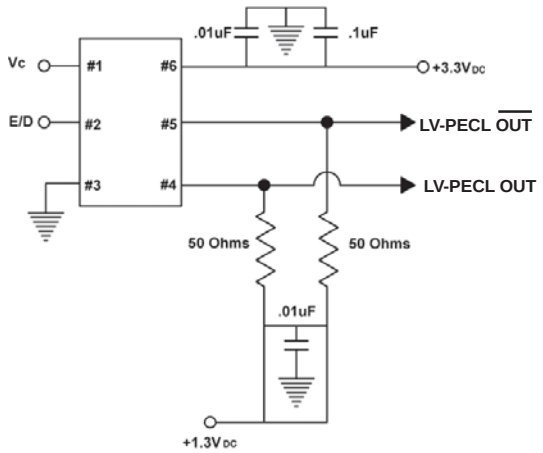
PARAMETERS		MAX (unless otherwise noted)
Frequency Range (Fo)		600.000 ~ 1250MHz
Absolute Pull Range (APR) Vc=1.65V±1.5V		±50 PPM
Temperature Range		
Operating	(Topr)	-40ºC ~ +85ºC
Storage	(Tstg)	-55ºC ~ +125ºC
Input Voltage	(VDD)	3.3V ± 10%
Control Voltage	(Vc)	1.65V ± 1.5V
Input Current	(IDD)	40mA
Rise Time	(20% ~ 80% Vp-p)	0.5nS
Fall Time	(80% ~ 20% Vp-p)	0.5nS
Symmetry	(50% Vp-p)	45/55 %
Output Voltage	(VOL)	1.65 V
	(VOH)	2.155 V Min
Linearity		± 10%
Modulation Bandwidth		>10kHz
PECL Skew (50% Vp-p)		125pS
Jitter		
RMS 12kHz to 20MHz		0.3pS Typ.
RMS 50kHz to 80MHz		0.8pS Typ.
RMS Period		2.8pS Typ.
Cycle-to-Cycle		23pS Typ.
Output Disable Time		100nS Max
Output Enable Time		100nS Max

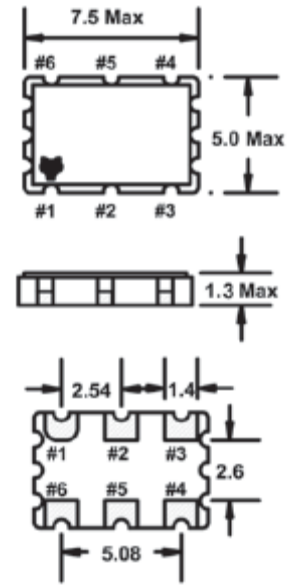
[1] Inclusive of 25ºC tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

[2] An internal pullup resistor from pin 2 to pin 6 allows active output if pin 2 is left open.

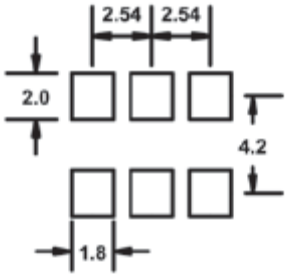
All specifications subject to change without notice. *Rev. 12/5/03*

RFV300 Series Recommended Circuit





Recommended Solder Pad Layout



Pin Connections

# 1 Vc	# 4 Output 1
# 2 E/D	# 5 Output 2
# 3 GND	# 6 VDD

All dimensions are in millimeters.

• ENABLE / DISABLE FUNCTION

(Pin 2)	OUTPUT (Pin 4, pin 5)
OPEN [2]	ACTIVE
'1' Level VIH ≥ 2.0V	ACTIVE
'0' Level VIL ≤ 1.0V	High Z