

WITHOUT DRIVER ☒ FS

WITH DRIVER ☐ FSD

2800R-PCB

CUSTOMER Catalog
CUSTOMER P/N

DESCRIPTION TINY₁₆ oscillator (PCB Mount), RoHS Compliant

RF SPECIFICATIONS	TUNING RANGE (GHz)	START 3.0 [1]	TO 8.00	STOP
POWER OUT (dBm)	+6	MIN		
POWER VARIATION OVER TUNERANGE (dB)		MAX		
HARMONICS (dBc)	-12	MAX		
NON-HARMONICS (dBc)	-70	MAX	☐	
TUNING LINEARITY	+/- 2	MHz MAX	OR +/-	% MAX
TEMPERATURE DRIFT (MHz)	+/- 45	☒ MAX	☐ TYP	
HYSTERESIS (MHz)	15	☒ MAX	☐ TYP	
FREQUENCY PUSHING (MHz/V)	2.0	☒ MAX	☐ TYP	
FREQUENCY PULLING - 1.5:1 VSWR (MHz)	2.0	☐ MAX	☐ TYP	
SSB PHASE NOISE (dBc/Hz)	10 KHz @ -100	☒ MAX	☐ TYP	
	100 KHz @ -125	☒ MAX	☐ TYP	

DC SPECIFICATIONS

BIAS +8.0	VDC @ 70	mA	☐ MAX	☒ TYP	
-5V	VDC @ 20	mA	☐ MAX	☐ TYP	
HEATERS n/a	VDC @	mA	☐ MAX	☐ TYP	
					@ 25 ° C STEADY STATE
mA SURGE AT TURN-ON					☒ MAX ☐ TYP

ENVIRONMENTAL SPECIFICATIONS

SCREENING

TEMP RANGE +10 DEG C TO +60 DEG C COMM ☒ MIL ☐ MIL(S) ☐

TUNING COIL

SENSITIVITY (MHz/mA)	7.6	☐ TYP	%
RESISTANCE (Ohms)	7.0	☐ MAX	☒ TYP
INDUCTANCE (mH)	10	☐ MAX	☒ TYP

FM COIL ☒

SENSITIVITY (KHz/mA)	300	☐ TYP	☐ 15 %
3 dB BANDWIDTH (KHz)	400	☐ MIN	☒ TYP
RESISTANCE (Ohms)	1	☐ MAX	☐ TYP
INDUCTANCE (uH)	TBD	☐ MAX	☐ TYP

DRIVER

ANALOG ☐

OR

DIGITAL ☐

TUNING VOLTAGE (V) FROM	TO	NO. OF BITS
CIRCUIT POWER	VDC @	mA, MAX
	VDC @	mA, MAX
	VDC @	mA, MAX
		LATCHING

TRANSPARENT ☐ EDGE TRIG ☐ LEVEL TRIG ☐
OUTLINE 1305981

PRODUCT CODE

OTHER SPECS:

[1] Zero current frequency to be 5.50GHz +/- 300MHz

CONTROLLING DOCUMENT

CUSTOMER (SCD NO. IS) X TELEDYNE

ASSIGNED BY MLK

DATE 4/2/2007

REV 2 [MLK 10-7-10]