

WITHOUT DRIVER ☒ FS

WITH DRIVER ☐ FSD

2830R-SMT

CUSTOMER Catalog
CUSTOMER P/N

DESCRIPTION TINY₁₆ oscillator (SMT Mount), RoHS Compliant

RF SPECIFICATIONS	TUNING RANGE (GHz)	START 3.0 [1]	TO 6.00	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) 8.0 ☐ 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 START WORD
VDC @ mA, MAX STOP WORD
VDC @ mA, MAX LATCHING

TRANSPARENT ☐ EDGE TRIG ☐ LEVEL TRIG ☐
OUTLINE IN-050088

PRODUCT CODE

OTHER SPECS:

[1] Zero current frequency to be 5.3GHz +/- 350MHz

CONTROLLING DOCUMENT

CUSTOMER (SCD NO. IS) X TELEDYNE

ASSIGNED BY MLK

DATE 8/13/2014

REV