Teledyne

MODEL NUMBER ASSIGNMENT SHEET (MNAS)
OSCILLATOR

● ● ● ● ● ●

WITHOUT DRIVER [X] **FS**

WITH DRIVER [ ] **FSD**

2830R-PCB

CUSTOMER Catalog
CUSTOMER P/N

DESCRIPTION TINYᴵᴳ oscillator (PCB 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	[X] **MAX**	[ ] **TYP**	
HYSTERESIS (MHz) 15	[X] **MAX**	[ ] **TYP**	
FREQUENCY PUSHING (MHz/V) 2.0	[X] **MAX**	[ ] **TYP**	
FREQUENCY PULLING - 1.5:1 VSWR (MHz) 2.0	[ ] **MAX**	[ ] **TYP**	
SSB PHASE NOISE (dBc/Hz) 10 KHz @ −100	[X] **MAX**	[ ] **TYP**	
100 KHz @ −125	[X] **MAX**	[ ] **TYP**	

DC SPECIFICATIONS

BIAS +8.0	**VDC @** 70	**mA** [ ] **MAX**	[X] **TYP**	
−5V	**VDC @** 20	**mA** [ ] **MAX**	[ ] **TYP**	
HEATERS n/a	**VDC @**	**mA** [ ] **MAX**	[ ] **TYP**	**@ 25° C STEADY STATE**
		mA SURGE AT TURN-ON [X] **MAX**	[ ] **TYP**	

ENVIRONMENTAL SPECIFICATIONS

SCREENING

TEMP RANGE +10 **DEG C TO** +60 **DEG C**

COMM [X] **MIL** [ ] **MIL(S)** [ ]

TUNING COIL					FM COIL [X]				
SENSITIVITY (MHz/mA) 8.0	[ ] **TYP**	**%**			**SENSITIVITY (KHz/mA)** 300	[ ] **TYP**	[15] **%**		
RESISTANCE (Ohms) 7.0	[ ] **MAX** [X] **TYP**				**3 dB BANDWIDTH (KHZ)** 400	[ ] **MIN** [X] **TYP**			
INDUCTANCE (mH) 10	[ ] **MAX** [X] **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 1305981 **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** 2/19/2008 **REV**