WITHOUT DRIVER [X] **FS**

WITH DRIVER [ ] **FSD**

2897R-SMT

CUSTOMER Catalog
CUSTOMER P/N

DESCRIPTION TINYig oscillator (SMT Mount), RoHS Compliant

RF SPECIFICATIONS

TUNING RANGE (GHz) START 7[1]   TO   11   **STOP**

POWER OUT (dBm) +5   **MIN**

POWER VARIATION OVER TUNERANGE (dB) 7   **MAX**

HARMONICS (dBc) −12   **MAX**

NON-HARMONICS (dBc) −70   **MAX** [ ]

TUNING LINEARITY ±20   **MHz MAX   OR +/-**   **% MAX**

	Value		MAX		TYP
TEMPERATURE DRIFT (MHz)	±50	[X]	MAX	[ ]	TYP
HYSTERESIS (MHz)	25	[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

						MAX		TYP
BIAS	+5.0	**VDC @**	70	**mA**	[ ]	MAX	[X]	TYP
	n/a	**VDC @**	n/a	**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

SENSITIVITY (MHz/mA)	8.5	[X]	TYP		%
RESISTANCE (Ohms)	6	[ ] MAX	[X]	TYP	
INDUCTANCE (mH)	9	[ ] MAX	[X]	TYP	

FM COIL [X]

SENSITIVITY (KHz/mA)	300	[ ]	TYP	[±15] %	
3 dB BANDWIDTH (KHZ)	400	[ ] MIN	[X]	TYP	
RESISTANCE (Ohms)	1	[ ] MAX	[X]	TYP	
INDUCTANCE (uH)	1	[ ] MAX	[X]	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-051696-000   **PRODUCT CODE**

OTHER SPECS:

(1) Zero current frequency to be 9.25GHz +/- 300MHz

CONTROLLING DOCUMENT   **CUSTOMER**   **(SCD NO. IS**   **)**   X   **TELEDYNE**

ASSIGNED BY MLK   **DATE** 6/6/2011   **REV**