VCO 1280SMxyM5_100

rev_0 initial rev

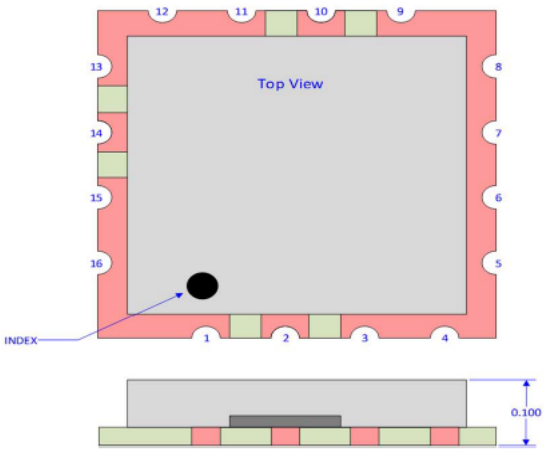
	MIN	TYP	MAX	UNITS	NOTES	Production Test	First Article Test
Frequency Range		1280		MHz	1	--	--
Tuning Voltage Range - Max	0		5.5	V	1	--	--
Tuning Voltage Range - Operating	1		4	V	1	--	--
Modulation Sensitivity		15		MHz/V	1,6	--	--
Operates with Vtune = 0V					1	--	--
Output Power	4.5		8.5	dBm	1	--	--
Phase Noise @							
10 KHz Offset			-110	dBc/Hz	1	--	--
45 KHz Offset			-123	dBc/Hz	1	--	--
100 KHz Offset			-130	dBc/Hz	1	--	--
500 KHz Offset			-144	dBc/Hz	1	--	--
1 MHz Offset			-150	dBc/Hz	1	--	--
10 MHz Offset			-160	dBc/Hz	1	--	--
40 MHz Offset			-160	dBc/Hz	1	--	--
Pushing			0.5	MHz/V	3	--	--
Pulling (12dB RL, any phase)			1.9	MHz_{p-p}	3	--	--
Modulation Bandwidth		0.1		MHz	4	--	--
Tuning Port Capacitance		85		pF	2	--	--
2nd Harmonic			-10	dBc	3	--	--
3rd Harmonic			-17	dBc	3	--	--
Vcc	4.70	5.00	5.25	V	1		
Icc			35	mA	1	--	--
Operating Temperature	-40		+90	C	3	--	--
Package		SMxyM				--	--
LxW		0.500		inch sq.	5	--	--
Height		0.100		inch	5	--	--

Notes

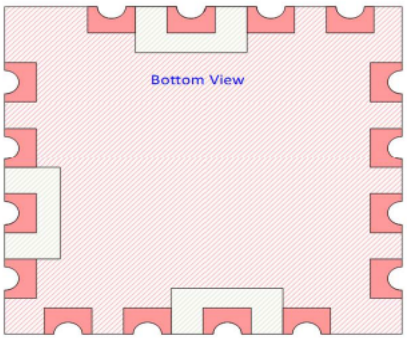
1. Tested in production, and guaranteed
2. Per current design, not a tested parameter
3. Sample tested from production lot
4. Not a tested or guaranteed design goal
5. By inspection
6. Design goal subject to change

RF OUT: Pin 10
VCC: Pin 14
V-Tune: Pin 2
GND: Pin 1, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16

Component Height: ≤ 0.1 inch



Cross hatch area indicates Solder Resist



Printed Circuit Board landing pads
Red squares are copper pads for solder attachment of the VCO pads
All pad dimensions are 0.066 inches by 0.066 inches
All pad separation are 0.1 inches