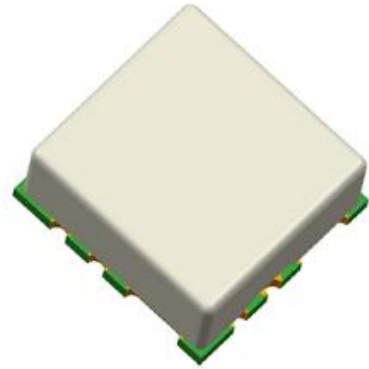




### Features and Benefits

Frequency Range: 2811-2975MHz  
Supply Voltage: 5.0V  
Current: 70mA Max.  
Output power: +5.5dBm Max.  
Phase noise: -88dBc/Hz@10KHz  
Operating temperature: -30°C--+80°C  
Size: 12.7x12.7x2.8mm  
Package type: SMD

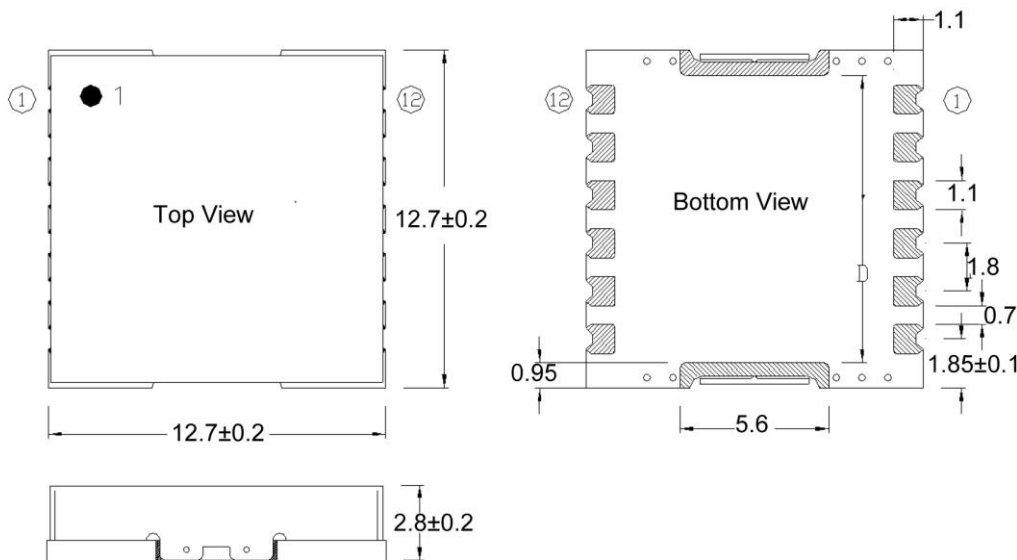


### Typical Applications

SATCOM radio link  
Point-to-Point radio  
Receiver  
MMDS  
Test Equipment  
WiMAX  
Radar

### Mechanical Drawing & Pin Connections

Drawing No: MD250011-1



Pin Connections:

Pin	Function
1	Clock
2	Data
3	Enable
4	N.C.
5	GND
6	GND
7	Vcc(Vco)
8	GND
9	RF Out
10	GND
11	Vcp(PLL)
12	Lock Detect

Unit in mm  
1mm = 0.0394 inches



### Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	2811	2893	2975
Output Power	dBm	+0.5	+3	+5.5
Channel Step Size	KHz		50	
Lock Time	ms			100
Lock State	Vdc	4.6		
Unlock State	Vdc			0.4
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-62	
Phase Noise @10kHz offset	dBc / Hz		-88	-82
2nd Harmonic	dBc			-15
Spurious	dBc			-45
Internal Reference Frequency (Ref)	MHz		13	
Frequency stability (@-30~+80°C)	ppm			$\pm 2.5$
VCO Power Supply (Vcc) Voltage	Vdc		5	
Current Consumption	mA			70
PLL Power Supply (Vcp) Voltage	Vdc		5	
Operating Temperature Range	°C	-30		+80