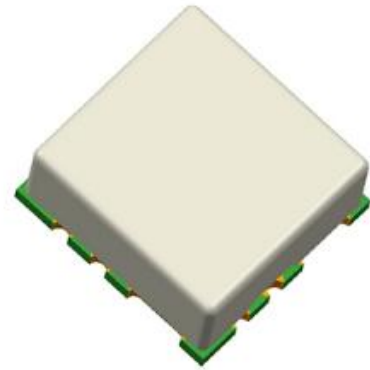




### Features and Benefits

Frequency Range: 1885-1945MHz  
 Supply Voltage: 5.0V  
 Current: 50mA Max.  
 Output power: +9.5dBm Max.  
 Phase noise: -95dBc/Hz@10KHz  
 Operating temperature: -30°C--+80°C  
 Size: 12.7x12.7x2.8mm  
 Package type: SMD

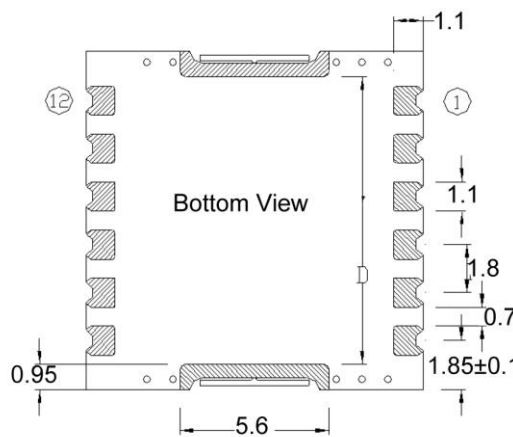
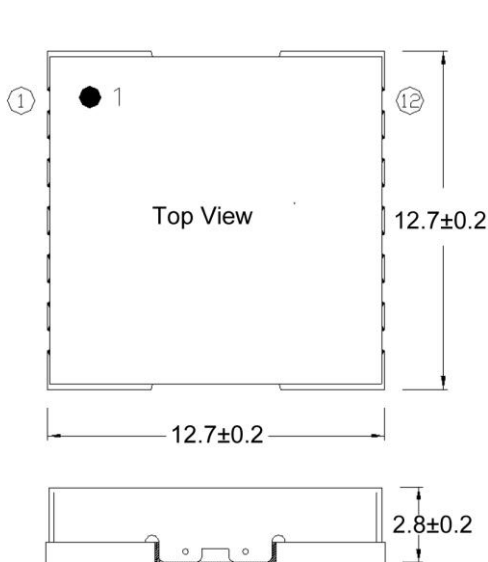


### Typical Applications

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

### Mechanical Drawing & Pin Connections

Drawing No: MD2500%#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	1885	1915	1945
Output Power	dBm	+4.5	+7	+9.5
Channel Step Size	KHz		50	
Lock Time	ms			100
Lock State	Vdc	4.6		
Unlock State	Vdc			0.4
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-72	
Phase Noise @10kHz offset	dBc / Hz		-95	-90
2nd Harmonic	dBc			-15
Spurious	dBc			-45
Internal Reference Frequency (Ref)	MHz		13	
Frequency stability (@-30~+80°C)	ppm			± 2.5
VCO Power Supply (Vcc) Voltage	Vdc		5	
Current Consumption	mA			50
PLL Power Supply (Vcp) Voltage	Vdc		5	
Operating Temperature Range	°C	-30		+80