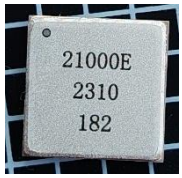
VMCG-100M/5000M-SM0909-C

FEATURES



- Input Frequency: 100MHz
- Input power: 7±2 dBm
- Output Frequency: 100MHz~5000MHz
- Size: 9mm×9mm×2.5mm

TYPICAL APPLICATIONS

- L, S, C, X, Ku band Radar
- Military Radio
- General Amplification

ELECTRICAL SPECIFICATIONS

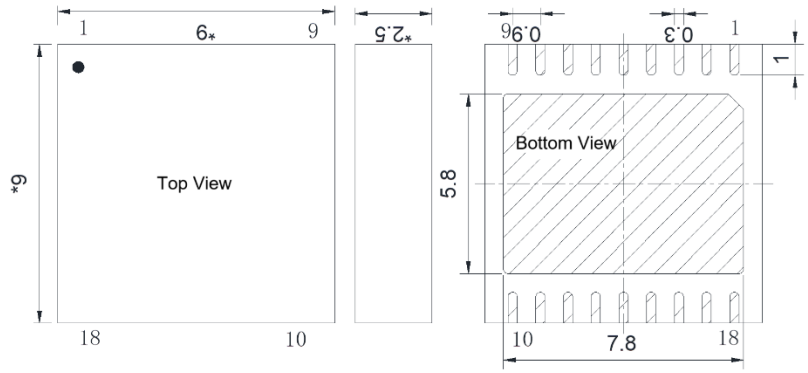
(TA=25℃，VCC=5V, Input frequency 100MHz, Input power 7dBm)

Parameter		Min.	Typ.	Max.	Unit
Output Frequency		100	-	5000	MHz
Output Power	@0.1GHz~1GHz	-8	-	-	dBm
	@1GHz~2GHz	-12	-	-	dBm
Phase Noise Degradation @1GHz	@1kHz	-	-	3	dB
Phase Noise	@1kHz	-	-150	-	dBc/Hz
Current		-	-	120	mA
Operating Temperature		-55	-	85	℃
Storage Temperature		-55	-	85	℃

ABSOLUTE MAXIMUN RATINGS

Parameter	Function
VCC	+5.2V
Input power	+13dBm
Reflow Soldering Peak Temperature	235℃/30Sec

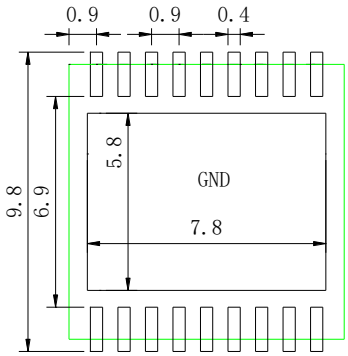
OUTLINE DRAWING



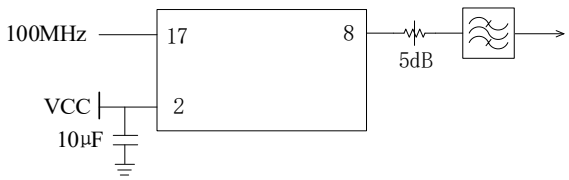
PIN FUNCTION

Pin No.	Function	Symbol
17	Input	IN
8	Output	OUT
2	Power	VCC
1、7、9、10、18	Ground	GND
O.W.	NC	NC

RECOMMENDED FOOTPRINT



APPLICATION NOTES



Place a 10μF decoupling capacitor close to the power input to suppress supply noise.
An external 5dB attenuator must be connected at the output to improve VSWR.

It is recommended to use RO4350B or similar ceramic-filled PCB substrates.

ESD (electrostatic discharge) sensitive device.