

Comb Generator

3-85GHz

Model: TLCG3G85G-1.0

This TLCG3G85G-1.0 is designed to provide stable, high purity equidistant frequency comb signals. It operates within 3 GHz to 85 GHz. Featuring low phase noise, high stability and excellent spectral purity, the module delivers reliable multitone output. Widely used in spectrum testing, frequency calibration, microwave measurement and communication system verification.

Features:

- Output harmonic Frequency range:3-85 GHz
- 50 Ohm Matched Input / Output

Applications:

- Communication receiver
- Laboratory test
- Sensor radar

Electrical Characteristics:

Parameter		Min	Typ	Max	Units
Input Frequency range		3		15	GHz
Input Power		18		25	dBm
Output Frequency range		3		85	GHz
Maximum Output Harmonic Factor	@Input=3GHz			28	
	@Input=5GHz			16	
	@Input=10GHz			8	
	@Input=15GHz			5	
Impedance		50			Ohms

Mechanical Specifications:

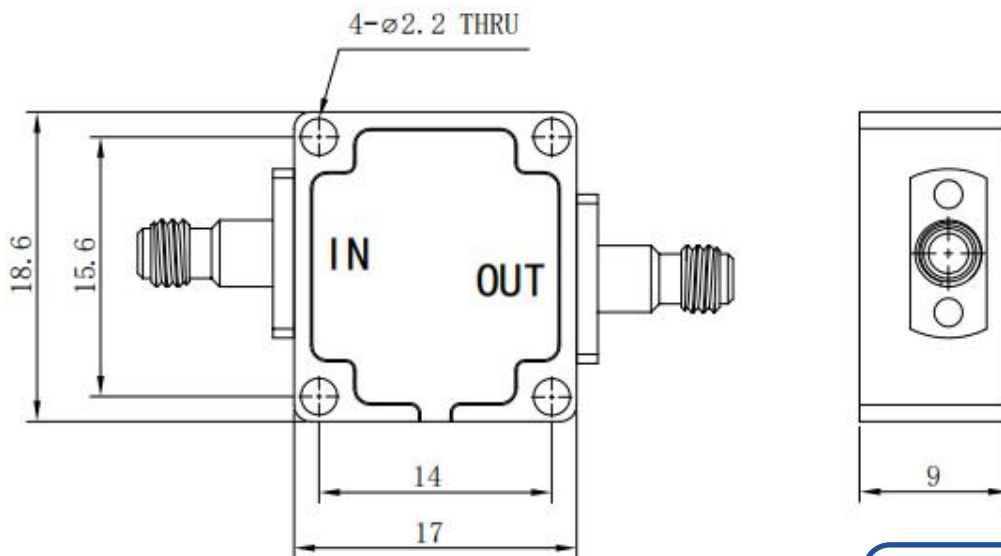
Parameter	Value	Units
Input /Output Connector	1.0mm Male/1.0mm Female	
Size	17*17*9	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+25 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		10,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLCG3G85G-1.0	Comb Generator, 3-85GHz	Rev.1.0