



## SPECIFICATIONS

### 1 General

Part Number	Description
ROS-1500	VCO 950MHz~1600MHz

### 2 Maximum Ratings

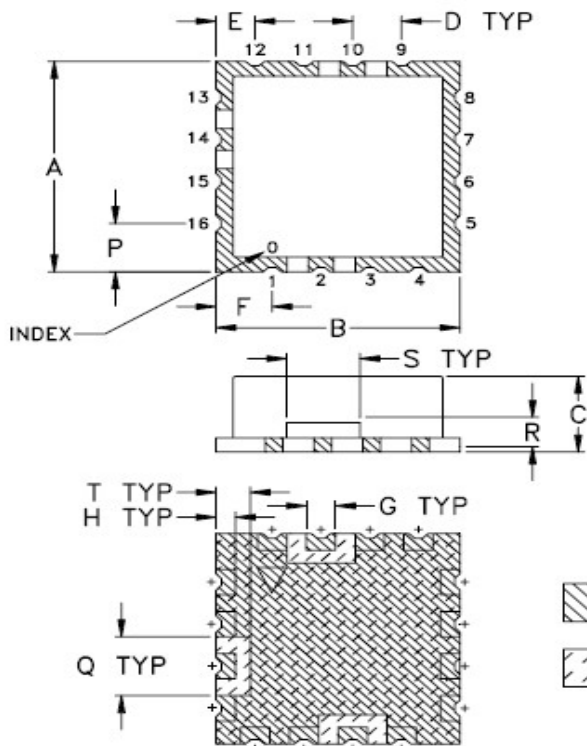
Item	Value	Units
Supply Voltage	12	V
Tuning Voltage	22	V
Operating Temperature	-55~ +85	°C
Storage Temperature	-55~ +100	°C

### 3 Electrical Specification

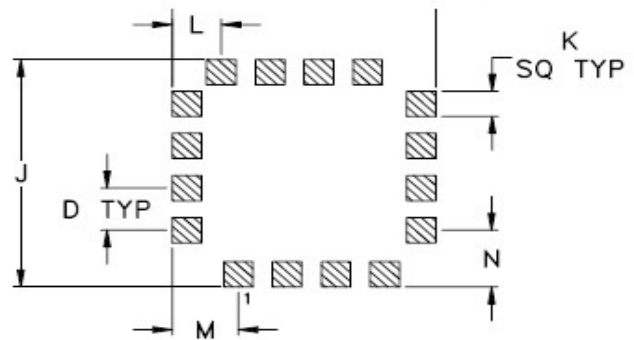
Item	Minimum	Typical	Maximum	Unit
Output Frequency	950		1600	MHz
Output Power		8		dBm
Tuning Voltage	0		20	V
Tuning Sensitivity		20-40		MHz/V
Harmonic Suppression		-18		dBc
Phase Noise		-104 @10kHz		dBc/Hz
		-124 @100kHz		
Supply Voltage	10			V
Current Consumption	22			mA



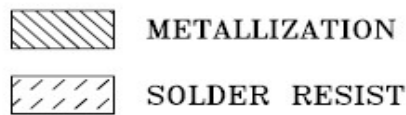
**4 Package Dimension (Unit: mm)**



**PCB Land Pattern**



Suggested Layout,  
Tolerance to be within  $\pm 0.002$



Unit: mm

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
12.7	12.7	4.6	2.54	2.03	2.92	1.52	1.02	13.72	1.52	2.54	3.43	3.43	2.92	3.56	1.78	3.81	1.78

Pin#	Function
2	Tuning Voltage (VT)
10	Output (RF)
14	Power Supply (VCC)
1, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16	Ground (GND)

**5 Welding Requirements (Reflow Profile)**

