

FEATURES:

- Premium Phase Noise
- Low Spurious
- +5V Supply Voltage


ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency (F)		1.00		GHz	
Frequency Stability ($\Delta F/F$)		± 200		ppb	vs. Temp
RF Output		+13		dBm	
Output Load		50		ohms	+/-10%
Input Voltage, Vs	+4.75	+5	+5.25	Volts	
Power Consumption, start up			4	Watts	
Power Consumption, steady state			2.5	Watts	
Control Voltage, Vc	0		10.0	Volts	
Tuning Range		± 2.5		ppm	
Tuning Slope	Positive				
Input Impedance	10			kohms	At Vc pin
Phase Noise (Under Static Conditions)			-75	dBc/Hz	10 Hz Offset
			-105	dBc/Hz	100 Hz Offset
			-135	dBc/Hz	1 kHz Offset
			-145	dBc/Hz	10 kHz Offset
			-150	dBc/Hz	>100 kHz Offset
Harmonics			-15	dBc	
Sub-Harmonics		-50		dBc	
Spurious			-80	dBc	
Warm-Up Time			5	minutes	for 0.1ppm accuracy

* Electrical specifications are given for Vs=+5V, Vc=+4.5V, TA= +25 $\pm$ 3 $^{\circ}$ C unless otherwise specified.

ENVIRONMENTAL SPECIFICATIONS:

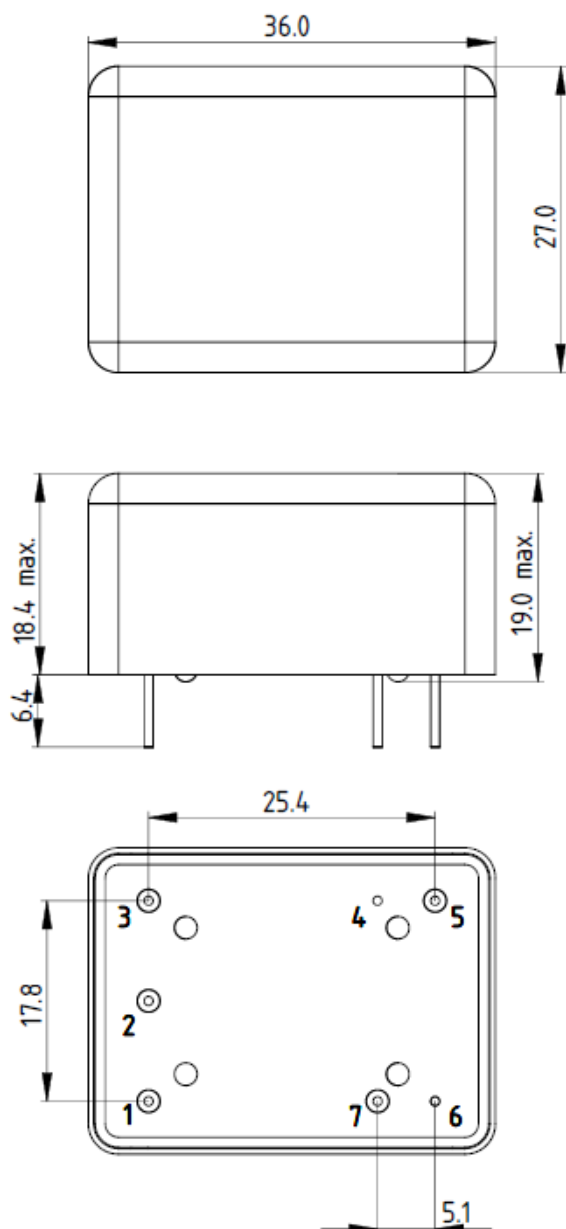
Parameter	Min.	Typ.	Max.	Units
Operating Temperature Range	-20		+70	$^{\circ}$ C
Storage Temperature	-40		+85	$^{\circ}$ C
Mechanical Shock (Non-Operating)	MIL-STD-202H Method-213 Condition-J, 30g 11ms			
Vibration (Non-Operating)	MIL-STD-202H, Method-204 Condition-B, 5g, 10-2000 Hz			
Soldering	260 $^{\circ}$ C for 10s max. leads only, no reflow			

MECHANICAL SPECIFICATIONS:

Parameter	Value	Units
Dimensions (L x W x H)	36 x 27 x 19	mm
Weight	24.3	gr
Seal	Solder	
Mechanical Housing	Nickel Plated CRS	

MECHANICAL OUTLINE:

- All dimensions are in mm
- General Tolerances: ± 0.2 mm



Pin #	Function
1	Vc
2	N/C
3	Vs
4	GND
5	RF Out
6	GND
7	N/C

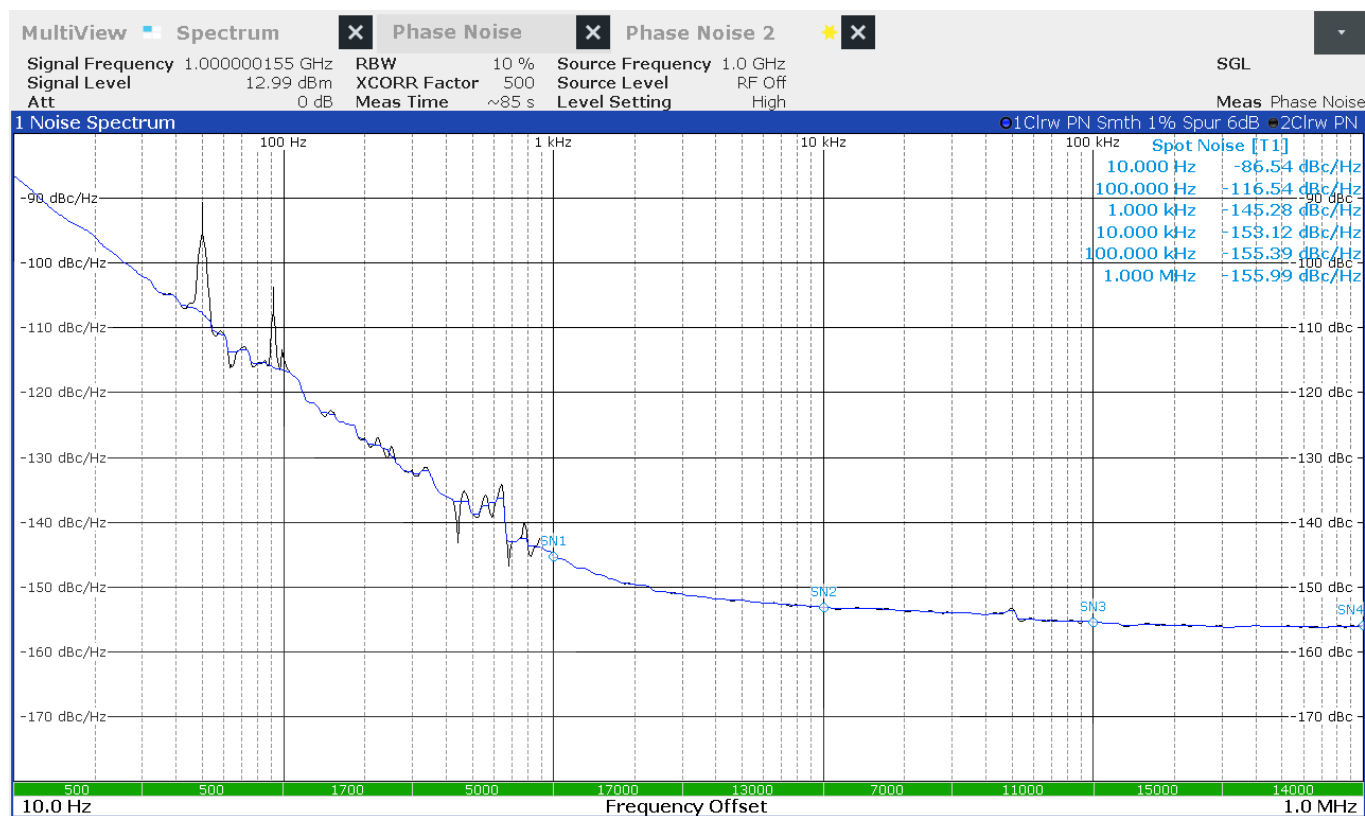


Figure 1: Typical Phase Noise @ 25°C

REVISION HISTORY:

Rev. No.	Date	Description
P1	12-Sep-2024	Preliminary Release
P2	07-Jul-2026	Updated <i>Electrical Specifications</i>