Datasheet

Phase-Locked Oscillator

MFSO-TV02-C

TMYTEK's Phase-Locked Oscillator is a pre-configured source suitable for any RF front-end systems. The MFSO series offers users the choice of single frequency output up to 32 sets of frequencies. It features excellent phase noise performance, wide band coverage.

Features

- Frequency coverage: 16 to 32 GHz
- Low phase noise
- Up to 32 pre-configured frequencies

Figure 1. Phase-Locked Oscillator / MFSO-TV02-C

Performance Specifications

Parameter	Condition	Min	Typ	Max	Units
Frequency		26.5	---	29.5	GHz
Phase Noise					
@ 100 kHz Offset	RF = 28 GHz	---	-87	---	dBc/ Hz
Output Power	RF = 28 GHz	+8	---	+10	dBm
Reference Oscillator		---	100	---	MHz
Load Impedance		---	50	---	Ω

Operating Specifications

Parameter	Min	Typ	Max	Units
Temperature Range	-40	---	+85	ºC
Supply Voltage	---	5	---	V
Current Consumption	---	650	---	mA

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Typical Performance

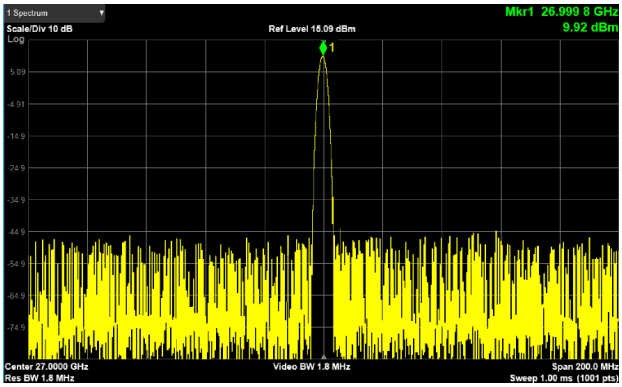

Figure 2. Output power at 27 GHz

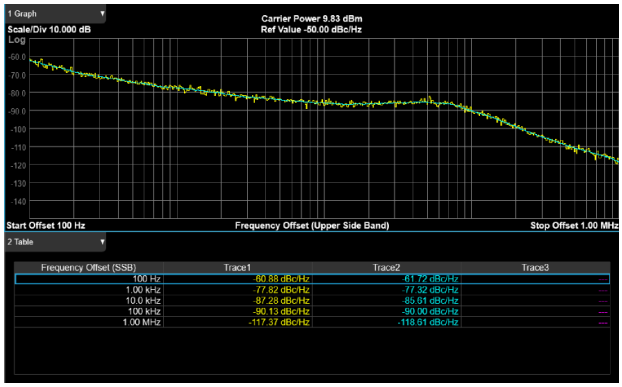

Figure 3. Phase Noise at 27 GHz Carrier

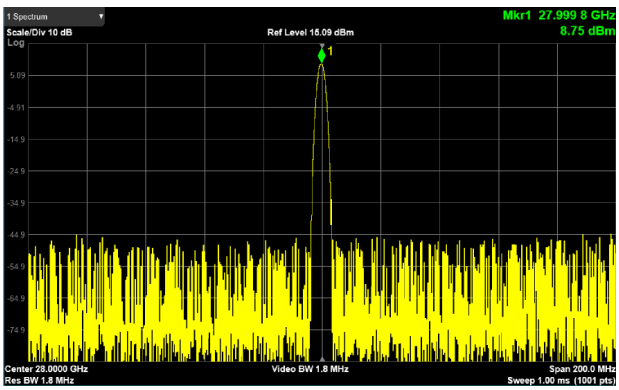

Figure 4. Output power at 28 GHz

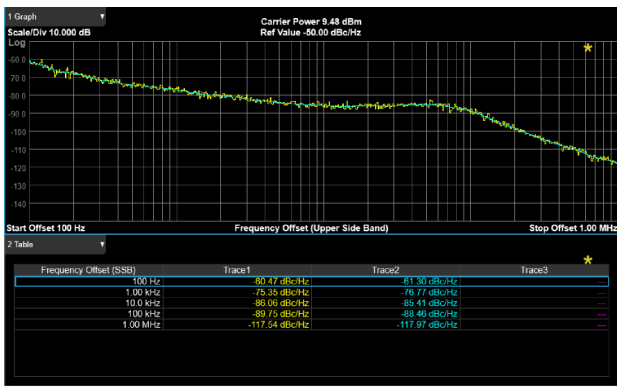

Figure 5. Phase Noise at 28 GHz Carrier

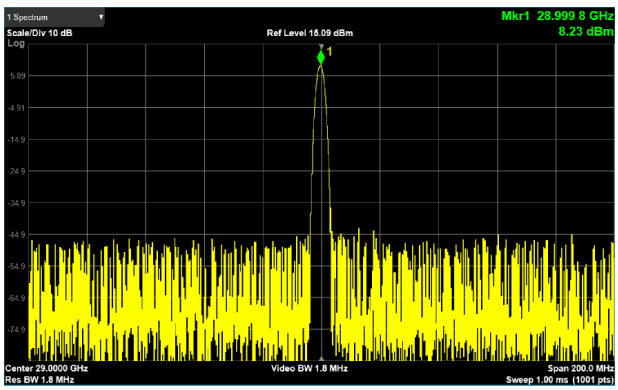

Figure 6. Output power at 29 GHz

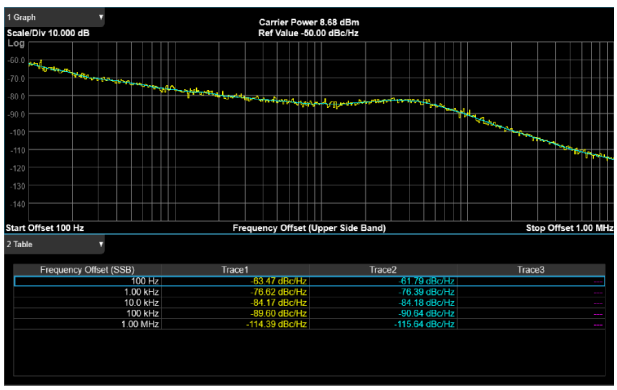

Figure 7. Phase Noise at 29 GHz Carrier

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Package Details

Parameter	Unit	Length	Width	Height
Dimension	mm	91	80.1	20.3
Weight	g	---	91	---

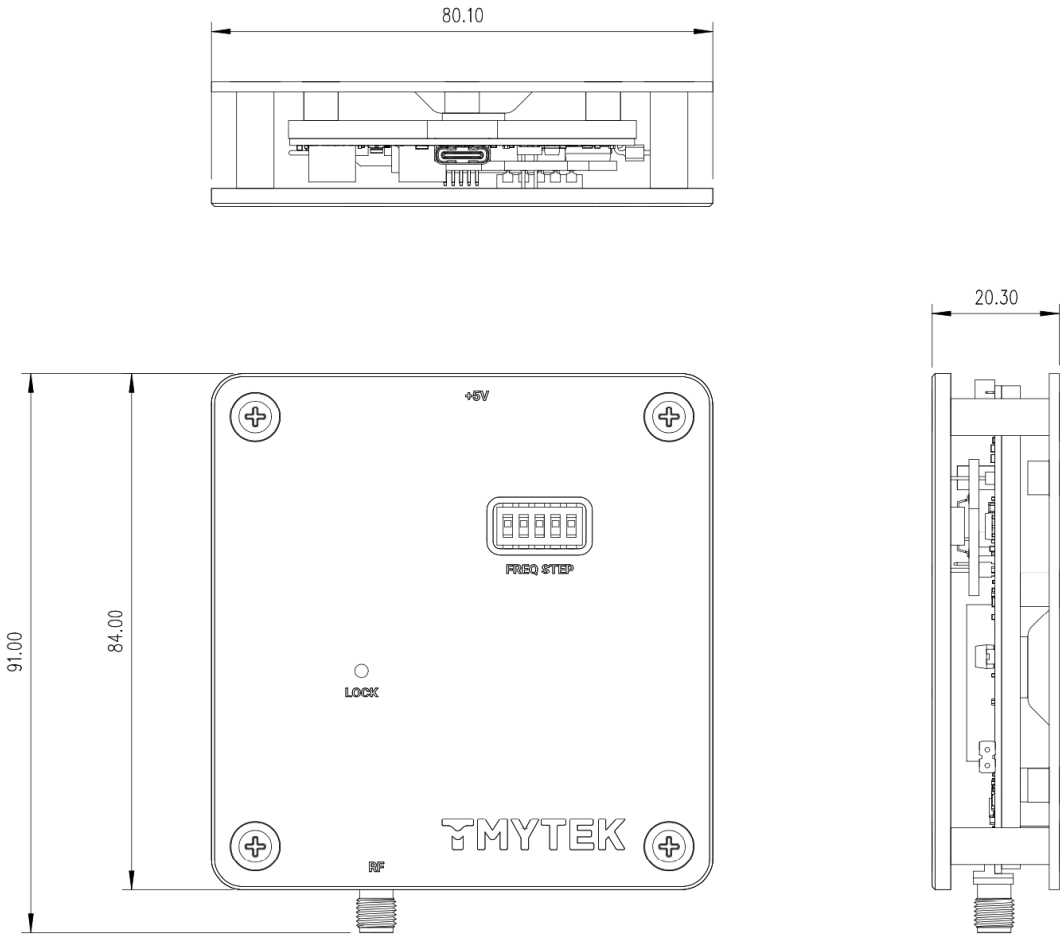

Figure 8. Package Dimension

Document Notes:

*All measurement data based on 100 MHz reference clock.
*All dimensions are in millimeters unless otherwise specified.

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