### **TMYTEK**



**High Performance** Low noise & Fast settling.

Reusable Up to 32 pre-defined frequencies.

Save Cost No NRE, No MOQ. No worries about inventory.



# **PLO**

## Reliable Signal Source

Our phase-locked oscillator is a pre-configured source that is suitable for any RF front-end systems. The SFSO and the MFSO series offer users the choice of single frequency output or multiple frequencies output.

It features excellent phase noise performance, wide band coverage, and superior flexibility.

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- www.tmytek.com



TMXLAB lab.tmytek.com

- f /TMYtek
- in /TMY Technology



## Phase-Locked Oscillator

NO NRE, NO MOQ! Deliver within 2 weeks.

www.tmytek.com

#### **Features**

- Fastest delivery in the world: 7 14 days\*1
- Wide frequency coverage up to 45 GHz
- Very low noise
- Up to 32 pre-configured frequencies
- SMT, EVB-board, and Connectorized Module are available
- Integrated with TMYTEK's ReF<sup>™</sup> Technology

#### **Specifications**

Parameter	Conditions	Units	Value
Frequency			
	Band 1 RF Port 1	GHz	1.925 - 8
	Band 1 RF Port 2	GHz	7.7 - 16
	Band 2	GHz	16 - 32
	Band 3	GHz	32 - 45
Phase Noise (@100 kHz Offse	t)		
Band 1 RF Port 1	RF = 6 GHz	dBc/Hz	-92.5
Band 1 RF Port 2	RF = 12 GHz	dBc/Hz	-86.5
Band 2	RF = 28 GHz	dBc/Hz	-87
Band 3	RF = 32 GHz	dBc/Hz	-77
Spurs		dBc	< 40
2nd Harmonic		dBc	₹20
Output Power			
Band 1 RF Port 1	1.925 to 8 GHz	dBm	+2 - +8
Band 1 RF Port 2	7.7 to 16 GHz	dBm	-1 -+5
Band 2	16 to 32 GHz	dBm	+10 • +15
Band 3	32 to 45 GHz	dBm	+12 - +18
Loading Impedance		Ω	50
Settling Time		μs	90
External Reference		MHz	10 - 800

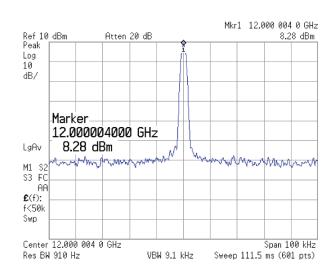
<sup>\*1</sup> For quantities of 1 to 200 pieces.

#### **Frequency Selection**

Series	Tones	Frequency	Band	Minimum Step Size
SFS0	One tone	Fixed		
MFSO	One tone	Select up to 32 frequencies	Band 1 Band 2 Band 3	1 MHz 2 MHz 4 MHz <sup>*2</sup>

**TMYTEK's ReF™ Technology** can reconfigure the module with different frequencies. With this technology, not only you will free your working space with redundant stocks, you will also save money for your next project. \*3

#### **Typical Performance**



Spectrum at 12 GHz Carrier

#### **Package Details**

Available in three different package styles:

SMT Module\*4



Width	Length	Height	Unit
25.4	25.4	5.5	mm

Evaluation Board\*



Width	Length	Height	Unit
45.4	79.5	10	mm



Width	Length	Height	Unit
57.1	126	26	mm
106.1	126	56.1	mm
106.1	166	56.1	mm

<sup>\*2</sup> Based on 100 MHz REF CLK.

<sup>\*3</sup> Upgrade from SF to MF is not suitable for this service.

<sup>\*4</sup> Only available in Band 1.