

## 2.45GHz 30W Oscillator

## GMPO2425-30H

### Description

The GMPO2425-30H is a 30W, GaN RF Power oscillator, designed for Industrial, Scientific, Medical(ISM) , RF Cooking and Plasma Lighting application at 2450MHz. This industry leading high efficiency rugged oscillator is targeted to replace Industrial magnetrons and other vacuum tubes currently powering industrial heating, drying, plasma lighting and medical systems, in highly compact 28\*16mm without isolator included

RFPowerOsc is the trade mark registered by Innogration

### Product Features

Operate Frequency: 2450MHz

Typical >30W CW Psat@28V

Typical >40W CW Psat@32V

Typical Psat Efficiency:69%

Excellent Ruggedness

Excellent Thermal Stability

### Applications

Industrial Heating and Drying

Scientific

Medical

Plasma Lighting

RF Cooking

### Typical performance at room temperature

Freq(MHz)	Vdd (V)	Pout(W)	EFF(%)
2450	24	27	75%
	28	37	73%
	32	45	71%

Electrical Specifications in production test						
PARAMETER	Condition	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency		MHz		2450		fo
Pout	Vdd = 28V, Vgs=-2.4V	W	30	37		Pout
Efficiency	Vdd = 28V, Vgs=-2.4V	%		73		Eff

# 2.45GHz 30W Oscillator

# GMPO2425-30H

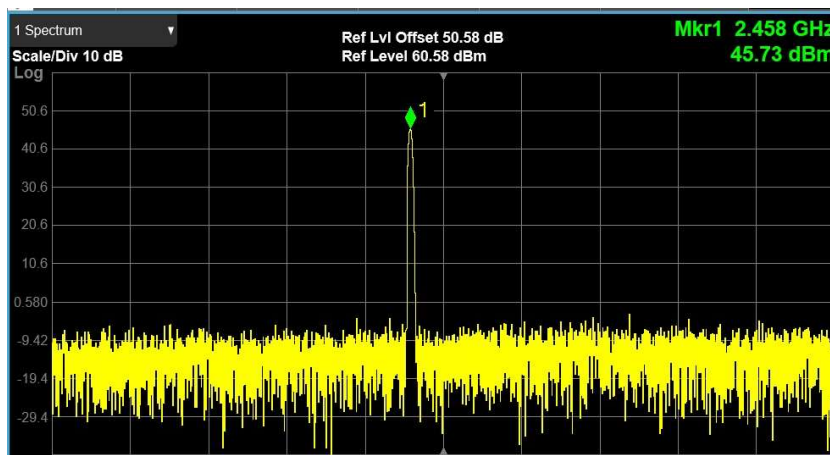
## Environmental Characteristics

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Case Temperature	°C	-55	-	150	Ta
Storage Temperature	°C	-65		150	Tstg
Relative humidity w/o condensation	%	-	-	85	RH

## Mechanical Specifications

PARAMETER	UNIT	VALUE
Dimensions(L × W × H)	mm	28×16×TBD
Weight	g	TBD
RF Output Connector	-	SMA(Female)
Power Supply Connector	-	TBD

## Product picture



## 2.45GHz 30W Oscillator

## GMPO2425-30H

### Revision History

#### Document revision history

Date	Revision	Datasheet Status
2024/1/22	Rev 1.0	Preliminary Datasheet
2024/3/1	Rev 2.0	Update according to latest result

Application data based on LSM-24-04

### Disclaimers

Specifications are subject to change without notice. Innogration believes the information contained within this data sheet to be accurate and reliable. However, no responsibility is assumed by Innogration for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Innogration. Innogration makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. "Typical" parameters are the average values expected by Innogration in large quantities and are provided for information purposes only. These values can and do vary in different applications and actual performance can vary over time. All operating parameters should be validated by customer's technical experts for each application. Innogration products are not designed, intended or authorized for use as components in applications intended for surgical implant into the body or to support or sustain life, in applications in which the failure of the Innogration product could result in personal injury or death or in applications for planning, construction, maintenance or direct operation of a nuclear facility. For any concerns or questions related to terms or conditions, pls check with Innogration and authorized distributors

Copyright © by Innogration (Suzhou) Co.,Ltd.