

## 2.45GHz 10W Oscillator

## GMPO2425-10H

### Description

The GMPO2425-10H is a 10W, 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

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### Product Features

Operate Frequency: 2450MHz

Typical >10W CW Psat@28V

Typical >15W CW Psat@32V

Typical Psat Efficiency:70%

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	10	72%
	28	14	71%
	32	17	70%

Electrical Specifications in production test						
PARAMETER	Condition	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency		MHz		2450		fo
Pout	Vdd = 28V, Vgs=-2.45V	W	10	14		Pout
Efficiency	Vdd= 28V, Vgs=-2.45V	%		71		Eff

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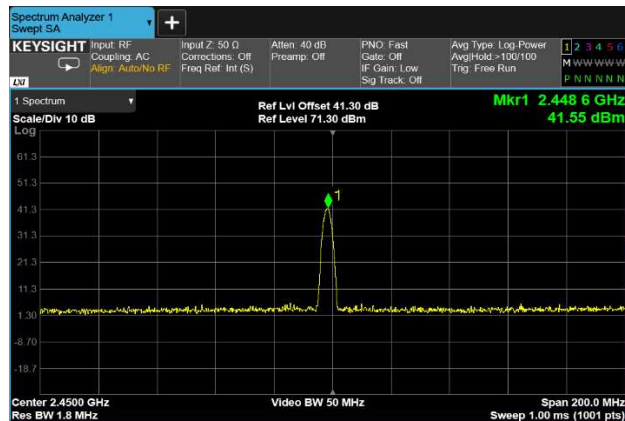
## Environmental Characteristics

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



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## Revision History

### Document revision history

Date	Revision	Datasheet Status
2024/3/26	Rev 1.0	Preliminary Datasheet

Application data based on LSM-24-11

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