

WAVEPIA RF ENERGY SOLUTION

HPGP – High Power GaN PLL



Product Feature

- ✓ GaN (Gallium Nitride) PLL (Phase Lock Loop)
- ✓ 2400MHz ~ 2500MHz
- ✓ Frequency Control
- ✓ Phase Control
- ✓ Output Power Control
- ✓ Module Efficiency: Above 50%
- ✓ VSWR Tracking Function
- ✓ Soft Start Function



Size: 89 x 67 x 18 (mm)

➤ Size and design of fixture can be modified upon request.

Specification (Tc=25°C, CW)

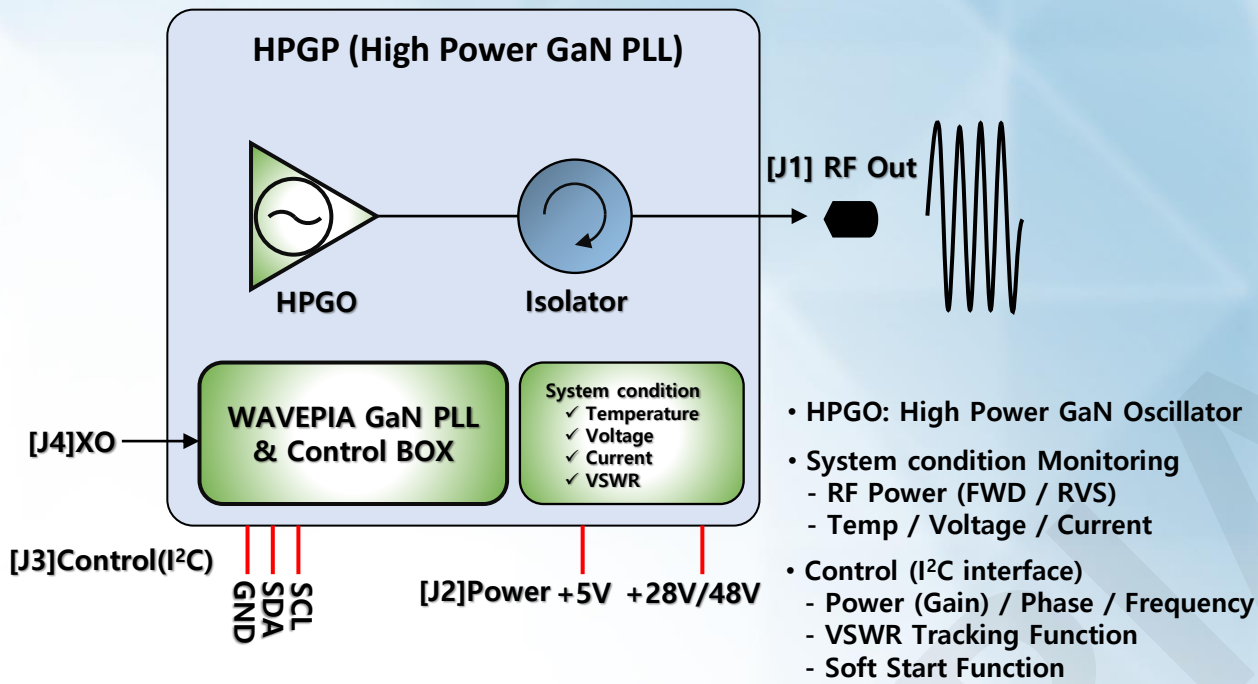
Criteria	HPGP24S2510	HPGP24S2520	HPGP24S2530
Frequency	2400MHz ~ 2500MHz		
Frequency Accuracy	±0.25KHz		
Output Power (W)	10	20	30
Supply Voltage (V)	28 or 48		
Module Efficiency	Above 50%		
RF Output Connector	SMA-F / N-F		
Operating Temperature	-40 ~ 80°C		
Monitor	FWD. Power, RVS. Power, Temp. (optional) Voltage, Current		
Cooling Method	TBD		
Size (mm)	89x67x18		

Special Function (control Interface: I²C)

Criteria	HPGP24S2510	HPGP24S2520	HPGP24S2530
Power Control	0 ~ 6dB (resolution: 0.1dB)		
Phase Control	0 ~ 720° (resolution: 0.5°)		
VSWR Tracking Step	100KHz		

Additional technical information available upon request.

■ Block Diagram



■ Interface

Port name	# of Pin	Description
[J1] RF Out	1	1: RF Out (N-Type or 7/16 DIN)
[J2] Power	3	1: +5V 2: +28V / +48V
[J3] Control	3	1: SCL 2: SCA 3: GND
[J4] Sync	1	1: Reference (XO)

Type of Connector can be changed upon request.

■ Application

- RF Energy Application
 - ✓ RF Heating and Drying
 - ✓ Solid state Microwave OVEN application
 - ✓ Plasma Lighting System
 - ✓ Plasma Application
- Magnetron Replacement
- High power RF CW Generator