

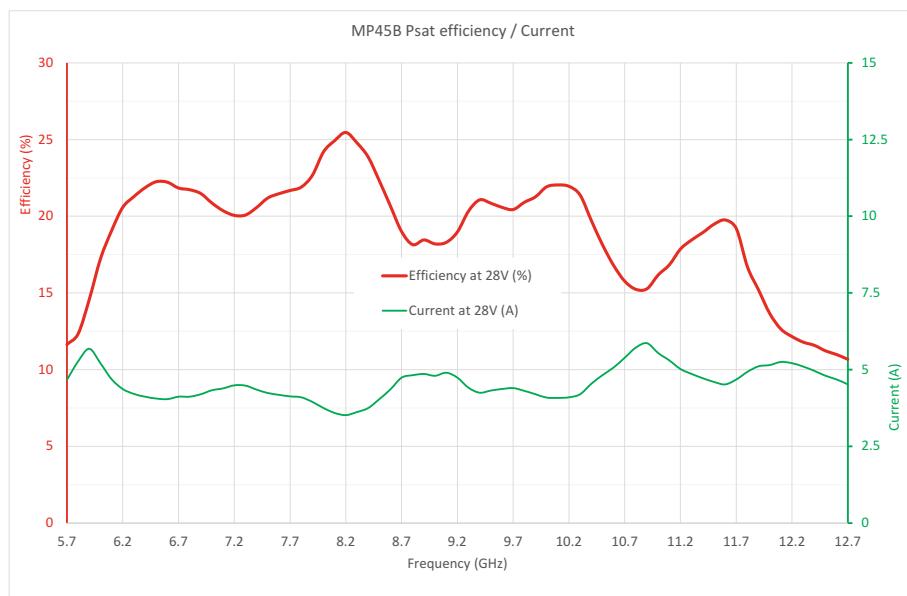
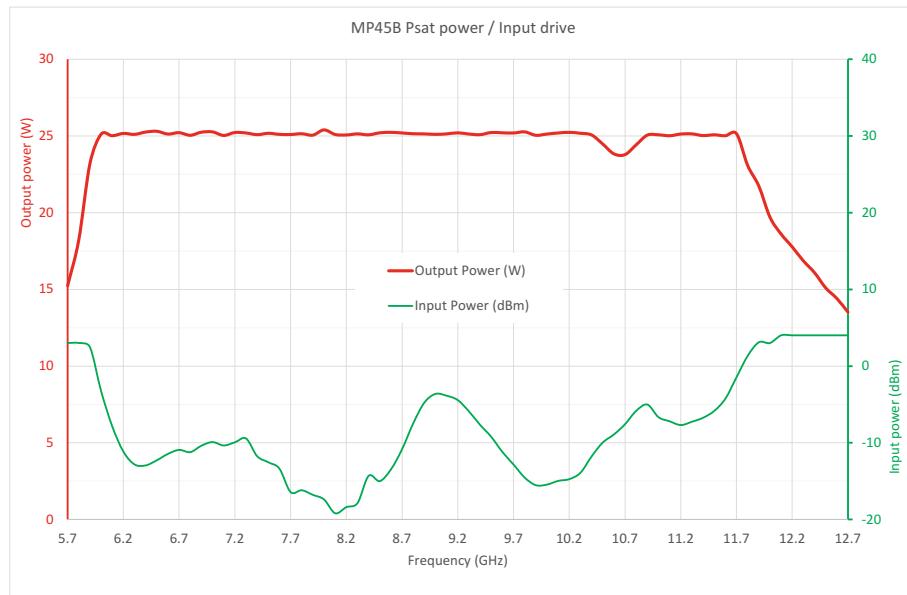
MP45B 5.7GHz to 12.7GHz is a wideband, high power GaN Power Amplifier suitable for use in a variety of ECM applications.



PRODUCT FEATURES

- Broadband 5.7GHz to 12.7GHz
- Max power 25W
- Compact and robust

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	5.7GHz	12.7GHz		
Psat Power @ 28V	20W	25W	23W	6.0GHz to 12GHz
Band edge Psat Power @ 28V	10W	23W	20W	5.7GHz to 6GHz and 12GHz to 12.7GHz
Large Signal Gain			50dB	Typical -5dBm in at 28V
Input Return Loss			-10dB	
2nd Harmonics		-10dBc	-25dBc	
Current at Psat or 25W		5.5A	4A	Supply Voltage 28V
Efficiency at Psat or 25W	15%	25%	20%	6.0GHz to 12GHz, Supply Voltage 28V
Band edge efficiency	10%	15%		5.7GHz to 6GHz and 12GHz to 12.7GHz
Input Voltage	22V	30V	28V	Predictable power variation with voltage
Shutdown Rise time			5us	Pin 4
Shutdown Fall time			-8us	Pin 4
Shutdown Current			50mA	Pin 4
Intermodulation		-20dBc	-25dBc	Two 5W Tones, 1MHz Spacing
Dimensions LxWxH				137mm x 76mm x 30mm
Weight			425g	
Connectors				SMA & 9 Pin D-type
Operating Temperature	-20°C	+80°C		Temperature measured at PA case
Storage Temperature	-40°C	+85°C		
Thermal Protection				Cut out operates at 85°C ±5°C
Open/Short Survivability				10:1 VSWR at all phase angles



MP45B 9 Pin D-Type Connector

PIN	DESCRIPTION	SPECIFICATION
4	Standard Shutdown	Enable "low" (GND) Disable "High" (2.5 to 3.3V) or Disconnected (floating)
5	N/A	Spare
6,7	VDD	+28V DC
8,9	GND	Ground

This product is designed and manufactured in the United Kingdom in accordance with the ISO 9001:2015 Quality Management System. RoHS compliant parts and processes are used in the manufacture of this product.