



4 WATT T/R POWER MODULE

Wideband 6-18 GHz power amplifier with built-in phase and amplitude control

TECHNICAL SPECIFICATIONS

Frequency Range	6-18 GHz
Saturated Output Power	+36 dBm typical, mid band
Transmit Path Gain (small signal)	42 dB maximum
Left/Right Switching Speed	200 ns maximum
Gain Control Range	24 dB
Gain Control Resolution	5 bits (0.75 dB)
Phase Control Range	0°-348.75°
Phase Control Resolution	5 bits (11.25°)
Receive Path Gain	20 dB minimum
Receive Path P1dB	15 dBm minimum
Receive Path Noise Figure	5 dB typical
Supply Voltage	+8.25 V, -5.0 V
Supply Current	4.5 A maximum
Connector Type	GPO
Operating Temperature	-54°C to +64°C



KEY FEATURES

- > Frequency response 6 GHz to 18 GHz
- > 360 degree phase shift
- > 24 dB gain control range
- > Dual outputs
- > Compact size

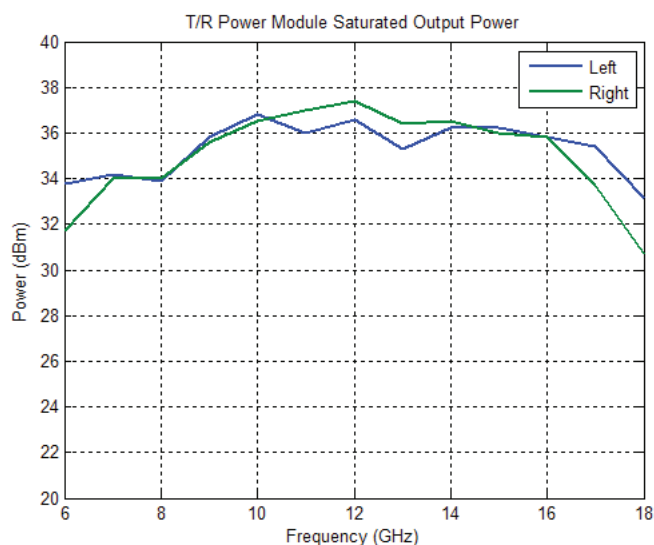
APPLICATIONS

- > Phased arrays
- > Electronic warfare

The wideband power amplifier covers a 6-18 GHz frequency range. With built-in phase and amplitude control, it is the ideal unit for radar and electronic warfare phased array applications.

Gain and phase variation between states is minimised by design across the full bandwidth. Further improvements in performance between pulses can be obtained through the built in lookup compensation table by providing information on operating frequency to the unit.

Dual switched outputs allow for easy connection to separate paths, for example, to differently polarised antenna elements.



POWER MATCHED BETWEEN OUTPUT PORTS

The unit offers a high degree of matching in the output power between both outputs with over 1 Watt of output power across the full 6-18 GHz bandwidth and over 4 Watts at mid-band.

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L3Harris reserves the right to amend specifications in the light of continuing development.

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