

# ZHM2325-45

## HIGH POWER AMPLIFIER

### 2300 MHz – 2500 MHz

This is a high power broadband amplifier for labs or testing purposes. This amplifier is excellent for 2300 MHz- 2500 MHz. The gain is over 11 dB. The maximum power is 45 W. Minimum required driving power is 4 W. This amplifier is recommended for testing, labs, Space research, Mil applications etc.

Dimensions: 7.56 " X 3.15 " X 0.87 ".



Technical Specifications	
Frequency range	2300..2500 MHz
Input power for P1dB	typ. 35 dBm
Maximum input power	40 dBm
Output power P1dB	min. 46.5 dBm (CW)
	min. 45 W (CW)
Output power COFDM (1)	typ. 40.8 dBm, min. 40 dBm
	min. 12 W
Gain (small signal)	min. 11 dB
Gain flatness (small signal)	typ. +/-0.5 dB
Harmonic rejection	typ. 55 dB, min. 48 dB @ 47 dBm
Over temperature protection	yes
IM3 (2)	typ. 40 dBc @ 41.7 dBm PEP
	typ. 30 dBc @ 44.7 dBm PEP
Efficiency	typ. 40 %, min. 35 % @ 47 dBm
Input return loss (S11)	min. 15 dB
ON voltage	+5 ... 14 V DC
Supply voltage	+13 V DC
Quiescent current	typ. 8 A
Current consumption	typ. 10 A
Forward detection	yes (diode detector)
Reflected power detection	yes (diode detector)
Operating case temp. range	-20 ... +55 °C
Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	7.56" X 3.15" X 0.87"

Weight	500 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz

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