

HD29347
1 to 1025MHz, 10W
Solid State
High Power Module Amplifier

The HD29347 is a 10W, Class A linear amplifier module for the 1MHz to 1025MHz band. It offers superior performance with high gain and power in a small module footprint using advanced broadband matching techniques and the finest gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, the HD29347 provides a typical 10watts P1dB making this the natural choice for your ultra broadband application.



Specifications

(Vsupply=+28VDC, Idq=2.7A, Pout=10W CW, TBase=25°C)

Parameter	Min.	Typ.	Max.	Unit
Frequency	1		1025	MHz
Pout CW P1dB	9	11		Watts
Power In		-2.5		dBm
Gain	40	42.5		dB
Gain Flatness		+/-1.5		dB
Drain Current		2.9		Amps
Input Return Loss			-14	dB
Supply Voltage	24	28	30	Volt
2 nd Harmonic	See 5 & 10 watt graph page 3			
3 rd Harmonic	See 5 & 10 watt graph page 3			
Dimensions	2.15" x 4.15" x 1.16" 54.6mm x 105.4mm x 29.5mm			

Features

- 10 Watts P1dB Class A
- 50 ohms input/output
- Bandwidth 1 to 1025MHz
- Optional Disable (+5VDC)
- All Gold MOSFETS for Maximum Reliability

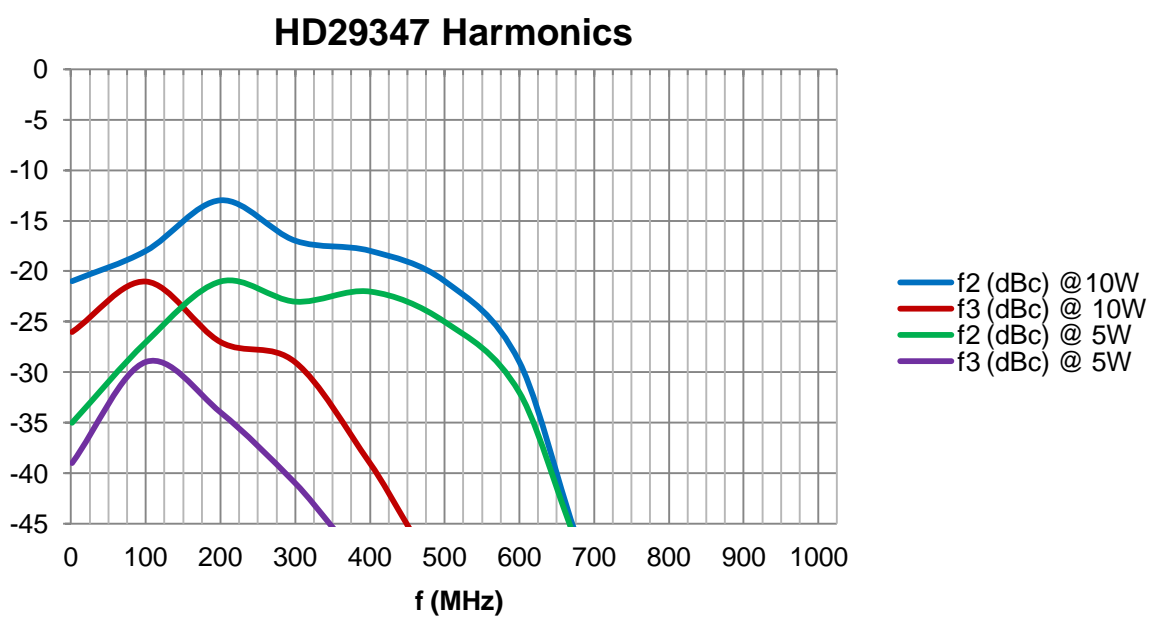
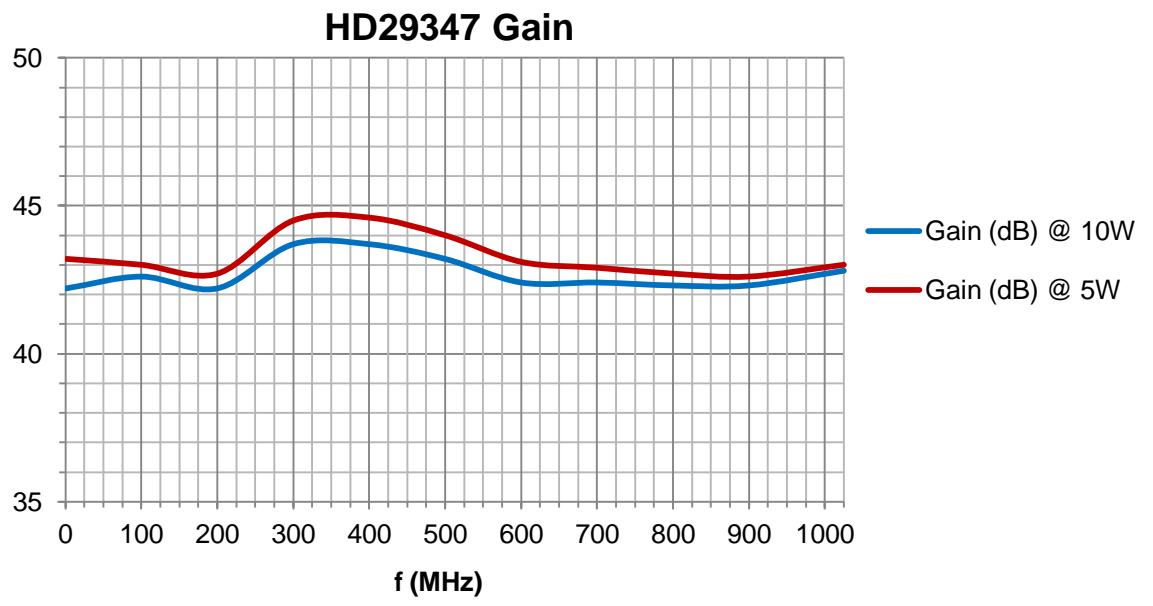
Maximum Ratings	
Parameter	Units
Pout CW	12.5 watts ⁽¹⁾
Supply Voltage	30VDC
Bias Current	2.7 Amp
Drain Current	3.2 Amp
Load Mismatch <small>All phase angles, current limited to 3.2 Amps for 2 seconds</small>	10:1
Storage Temp.	-40°C to +105°C
Case Oper. Temp.	0°C to +65°C

Performance , +24VDC supply

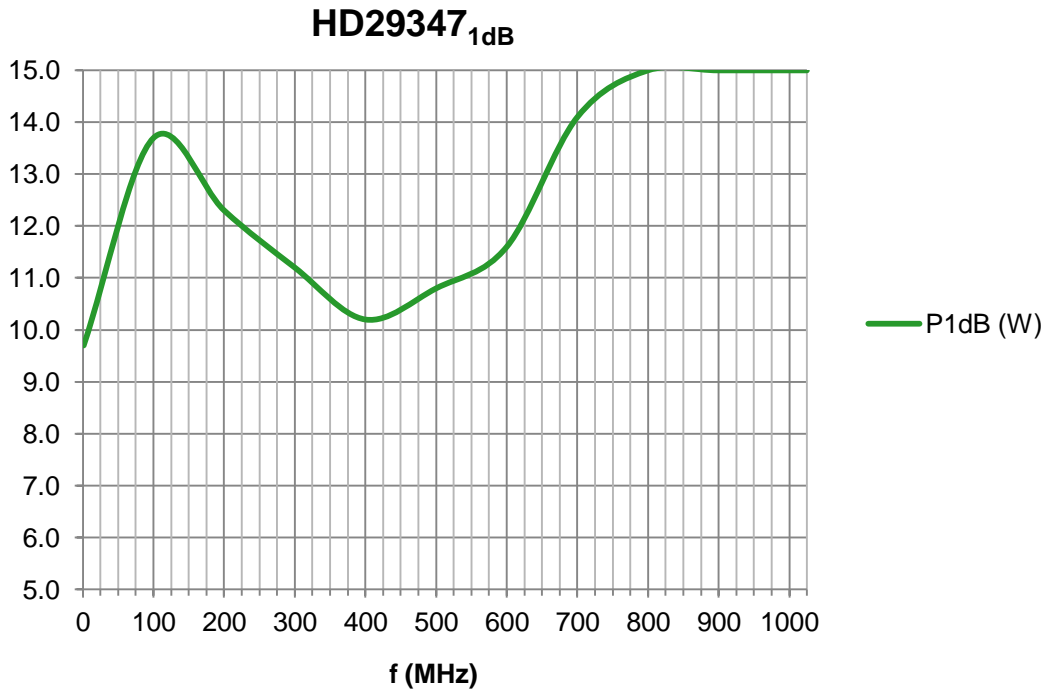
Performance , +30VDC supply

Specifications				
(Vsupply=+24VDC, Idq=2.7A, Pout:7.5wW CW, TBase=25°C				
Parameter	Min.	Typ.	Max.	Unit
Frequency	1		1025	MHz
Pout CW P1dB	+6.5			Watts
Power In		-4.2		dBm
Gain	40	43		dB
Gain Flatness		+/-1.5		dB
Drain Current		2.9		Amps
Input R/L			-14	dB
2 nd Harmonic		-20	-10	dBc
3 rd Harmonic		-27	-18	dBc

Specifications				
(Vsupply=+30VDC, Idq=2.7A, Pout=10W CW, TBase=25°C				
Parameter	Min.	Typ.	Max.	Unit
Frequency	1		1025	MHz
Pout CW P1dB	+9.5	11.5		Watts
Power In		-2.5		dBm
Gain	40	42.5		dB
Gain Flatness		+/-1.5		dB
Drain Current		2.9		Amps
Input R/L			-14	dB
2 nd Harmonic		-24	-14	dBc
3 rd Harmonic		-30	-20	dBc

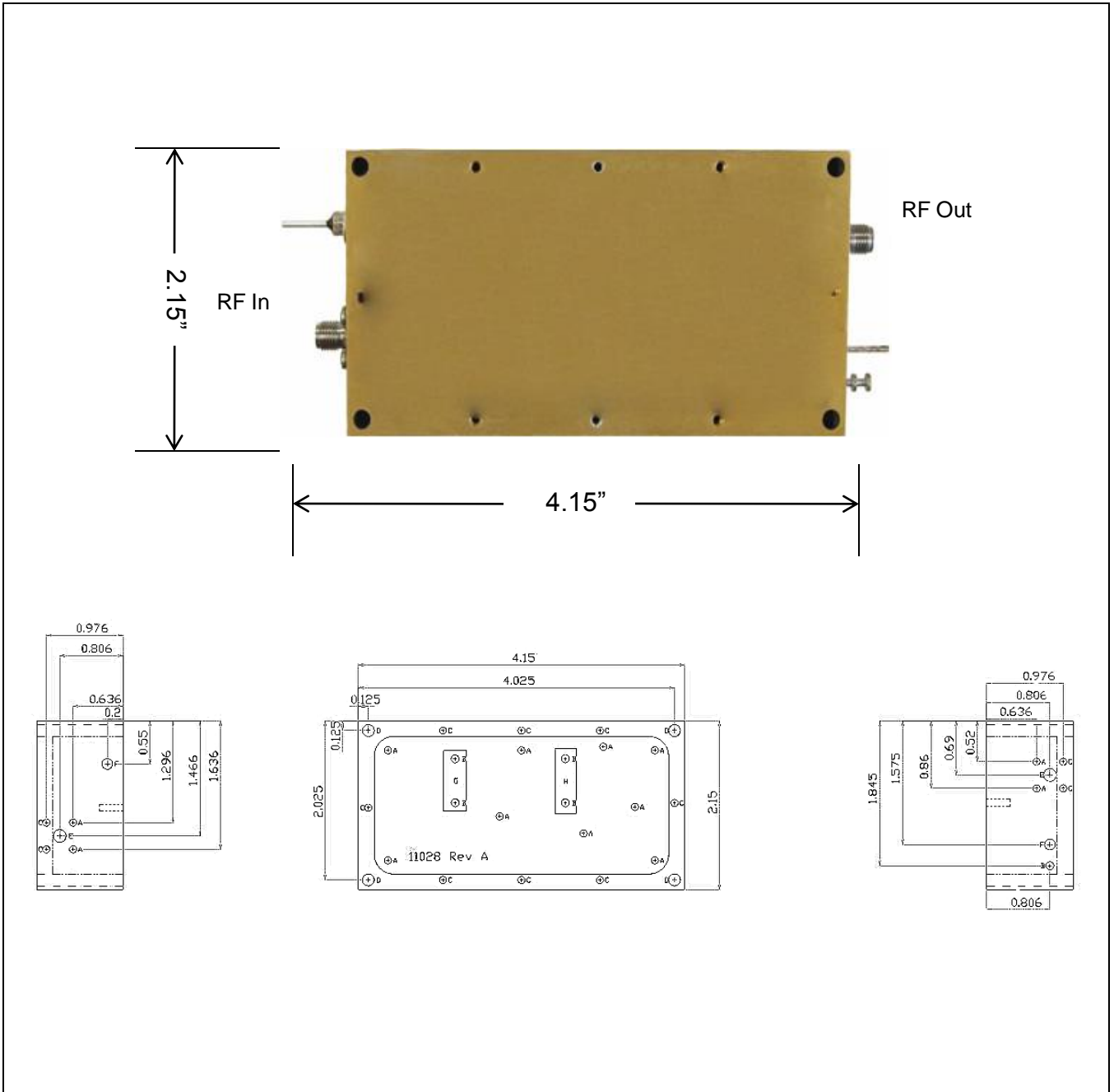


HD Communications Corp.
 2180 Fifth Avenue, Unit 4, Ronkonkoma, NY 11779
 Tel: (631) 588-3877 Fax: (631) 588-3879 Email: sales@rfamplifiers.com



Notes:

1. The maximum recommended operational output power is 12.5 watts CW. For operation greater than 12.5 watt CW please consult the factory.



HD Communications Corp.
 2180 Fifth Avenue, Unit 4, Ronkonkoma, NY 11779
 Tel: (631) 588-3877 Fax: (631) 588-3879 Email: sales@rfamplifiers.com