

HPA Series

880-940MHz 10W RF Power Amplifier

Features

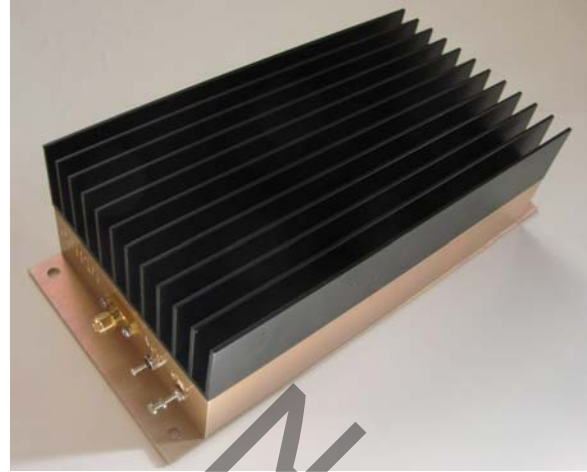
- Frequency Range: 880-940MHz
- Gain: 30dB
- P_{out}: +40dBm
- P_{sat}: +42dBm
- IP3: +50dBm
- DC Power: 12V
- SMA Connector

Performance measured @ 910MHz

Description

HPA-910 is a 10Watt (+40dBm) output RF Power Amplifier operating from single 12V DC power supply with frequency from 880MHz to 940MHz.

Picture



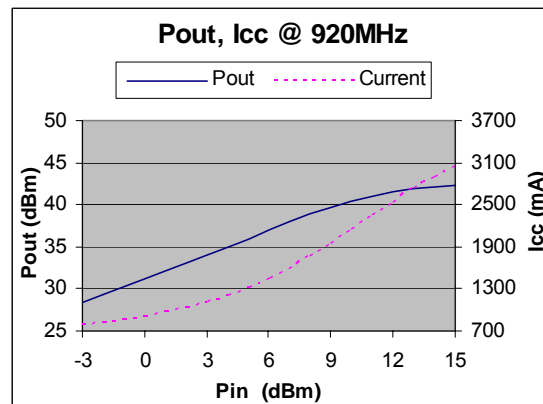
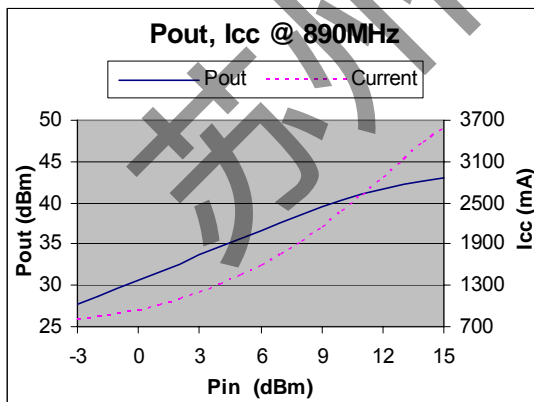
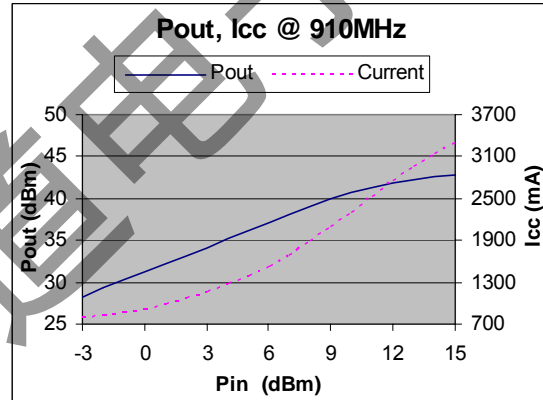
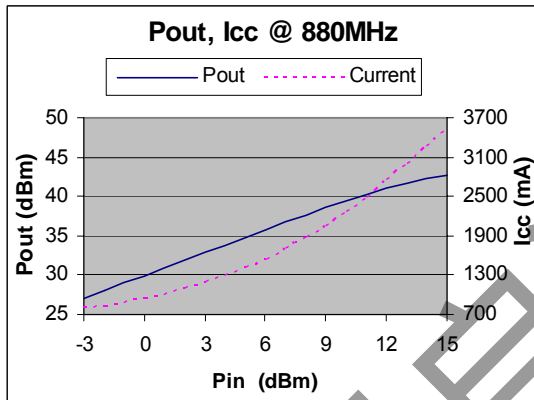
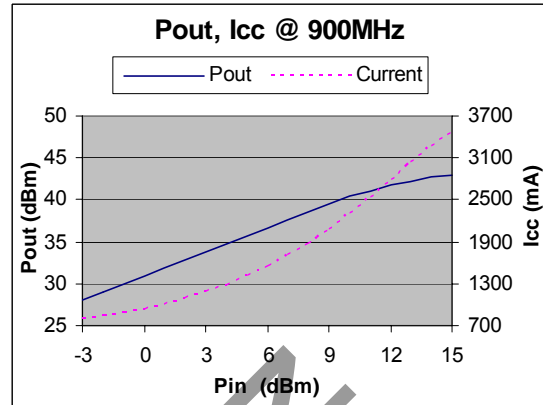
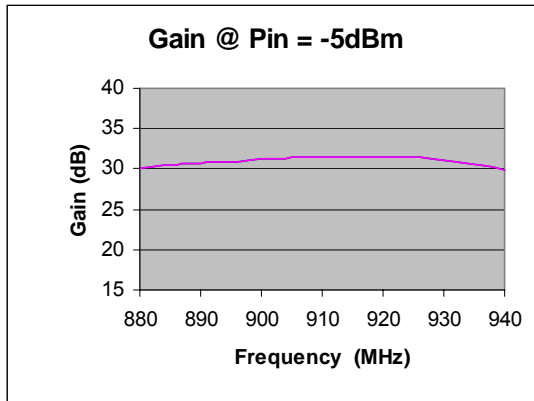
Electrical Specifications @ +25 °C, Z_s = Z_L = 50 Ω, V_{cc} = +12V

| Parameter | Unit | Minimum | Typical | Maximum |
|---|------|--------------------------|---------|---------|
| Frequency Range | MHz | 880 | | 940 |
| Small Signal Gain | dB | | 30 | |
| Output Power P _{out} @ P _{in} = +10dBm | dBm | | +40 | |
| Saturated Power P _{sat} @ P _{in} = +15dBm | dBm | | +42 | |
| IP3 | dBm | | +50 | |
| Reverse Isolation | dB | | -75 | |
| Efficiency at Pout = +40dBm | % | | 35 | |
| VSWR Input | | | 1.5:1 | |
| DC Power Supply | V | | +12 | |
| Supply Current | mA | | 2500 | |
| Size (Excluding SMA Connector) | inch | 7.000" x 3.250" x 2.000" | | |
| Weight | Oz. | 24 (680g) | | |

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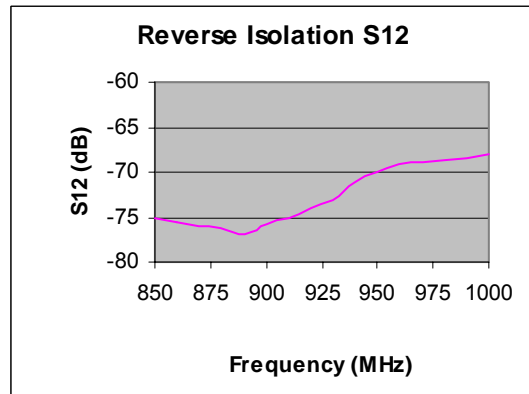
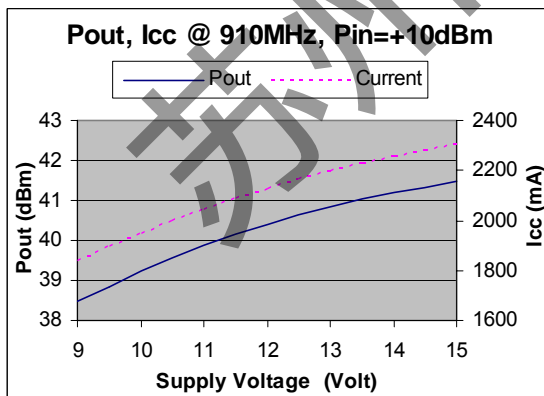
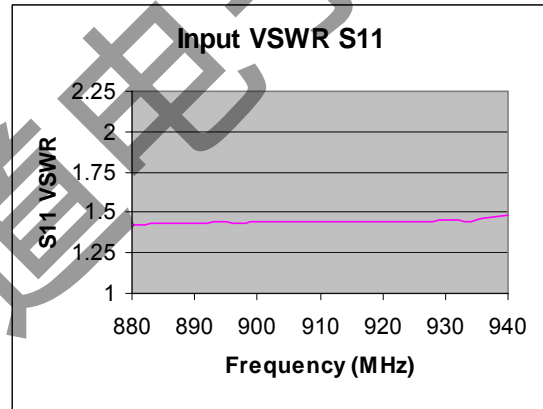
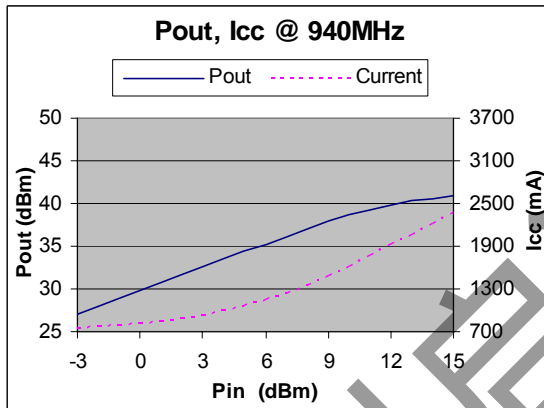
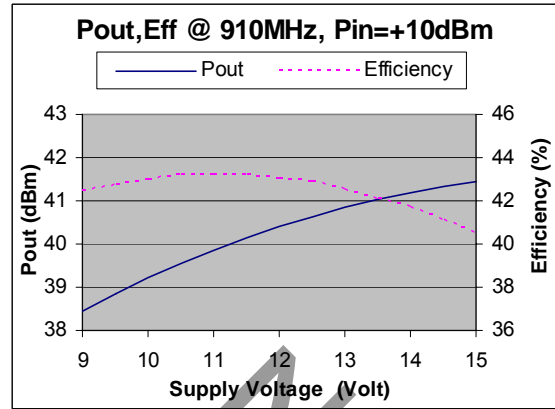
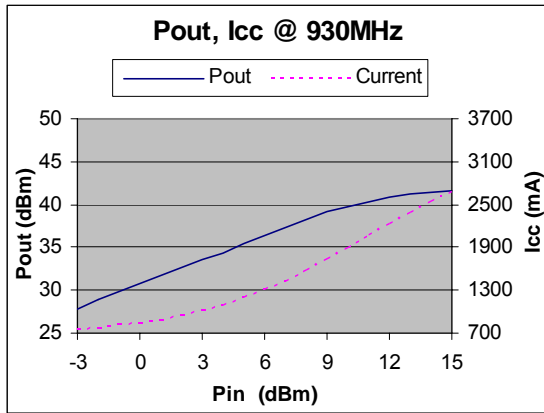
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



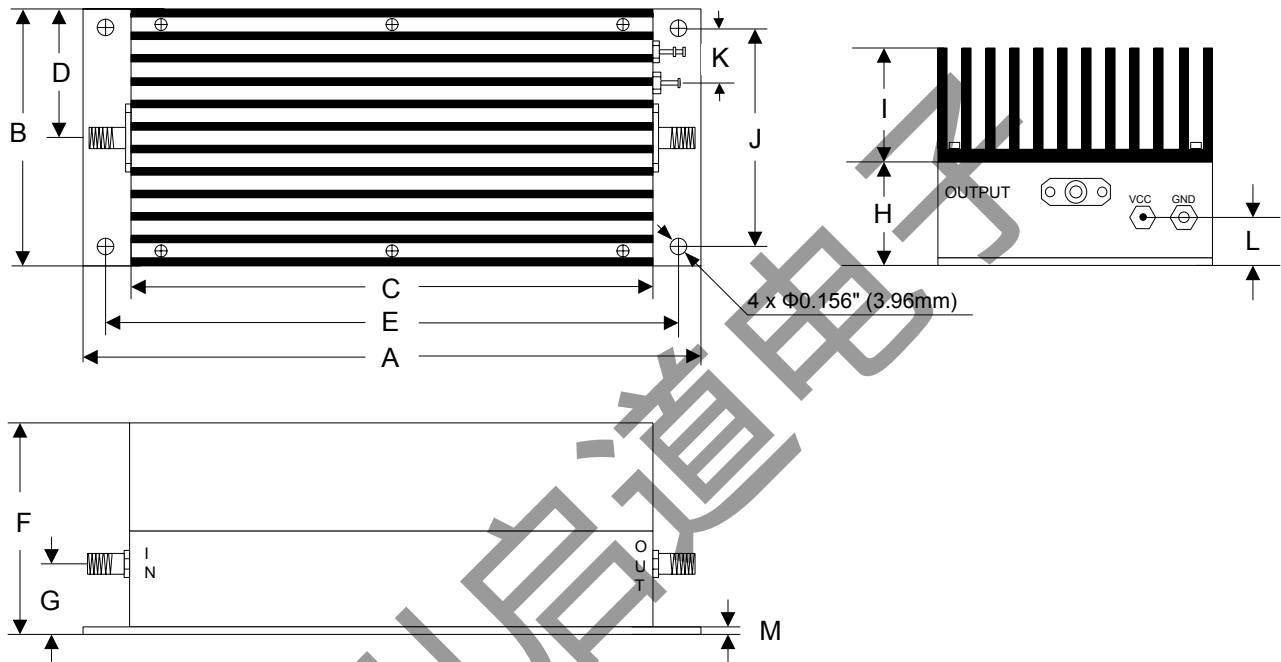
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Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF Input Power | +15dBm |
| Supply Voltage | +16V |
| Operating Temperature | -30 °C to +65 °C |
| Storage Temperature | -55 °C to +100 °C |

Outline



| | A | B | C | D | E | F | G | H | I |
|-------------|----------|----------|----------|----------|--------|-------|-------|-------|-------|
| Inch | 7.000 | 3.250 | 6.000 | 1.625 | 6.500 | 2.000 | 0.650 | 1.000 | 1.000 |
| mm | 177.80 | 82.55 | 152.40 | 41.28 | 165.10 | 50.80 | 16.51 | 25.40 | 25.40 |
| | J | K | L | M | | | | | |
| Inch | 2.750 | 0.625 | 0.450 | 0.090 | | | | | |
| mm | 69.85 | 15.88 | 11.43 | 2.29 | | | | | |