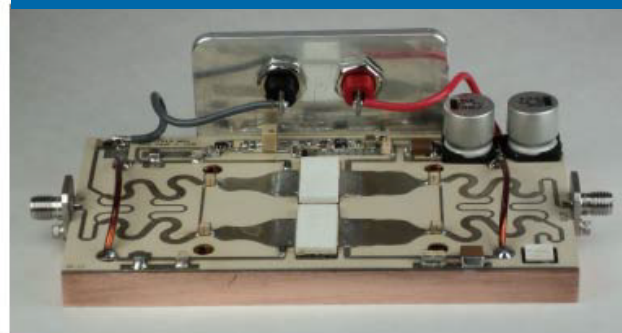


FEATURES

- 1 kWatt RF Pout (32 Watts Input Power)
- 48V operation VIMOS™ Technology
- High Gain, 15dB at 1 kWatt 1215MHz
- Compact design 2.6 x 4.6 Inches (64 x 117mm)
- Efficiency at 1 kWatt 1215MHz > 50%
- Excellent Efficiency from 500Watts to 1 kWatt
- Input and Output Matched to 50 Ohms

PALLET FORM FACTOR



THERMAL CHARACTERISTICS

| Parameter | Symbol | Min. | Max. | Unit |
|-----------------------------|--------------|------|------|------|
| Storage Temperature Range | T_{STG} | +65 | +150 | °C |
| Operating Temperature Range | T_J | | +230 | °C |
| Thermal Resistance | $R_{TH(JC)}$ | | .05 | °C/W |

DC CHARACTERISTICS

| Parameter | Symbol | Min. | Typ. | Max. |
|---|--------------|--------|--------|--------|
| DC Supply Voltage | V_{DD} | 28 V | 48 V | 50 V |
| Quiescent Current | I_{DQ} | 350 mA | 400 mA | 450 mA |
| Maximum Current Draw @ 1 kWatt RF output Power | $I_{D(MAX)}$ | | | TBD |

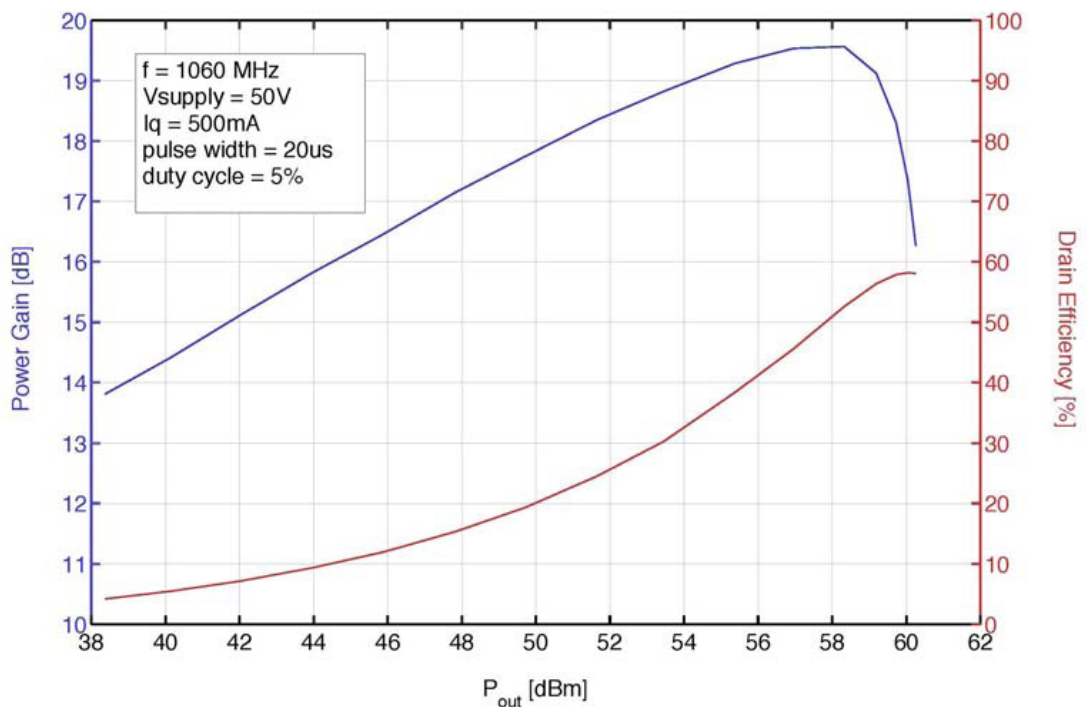
P1000-1215

960-1215MHz, 1025-1150MHz, 1030-1090MHz
1kWatt, 50V, 50 Ohm RF Pallet

RF CHARACTERISTICS

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|-------------------|--|----------|------------|------------|------------------------|
| P_{OUT} | $V_{DD} = 50\text{ V}$ $I_{DQ} = 400\text{ mA}$ $f = 960\text{-}1215\text{ MHz}$ Pulse Width = 20 μS Duty Cycle = 5 % | 950 | 1000 | 1100 | W |
| G_P Eff | $V_{DD} = 50\text{ V}$ $I_{DQ} = 400\text{ mA}$ $P_{OUT} = 1\text{ kW}$ $f = 960\text{-}1215\text{ MHz}$ Pulse Width = 20 μS Duty Cycle = 5 % | 14 50 | 15 55 | | dB % |
| G_P Eff | $V_{DD} = 50\text{ V}$ $I_{DQ} = 400\text{ mA}$ $P_{OUT} = 500\text{W}$ $f = 960\text{-}1215\text{ MHz}$ Pulse Width = 20 μS Duty Cycle = 5 % | 15 40 | 16 43 | | dB % |
| Ruggedness | $V_{DD} = 50\text{ V}$ $I_{DQ} = 400\text{ mA}$ $P_{OUT} = 1\text{ kW}$ $f = 960\text{-}1215\text{ MHz}$ Pulse Width = 20 μS Duty Cycle = 5 % | | | | |
| R_L | $V_{DD} = 50\text{ V}$ $I_{DQ} = 1.0\text{ A}$ Input Match Output Match | -5 -5 | -15 -20 | -20 -35 | dB dB |

RF Performance at 1060 MHz

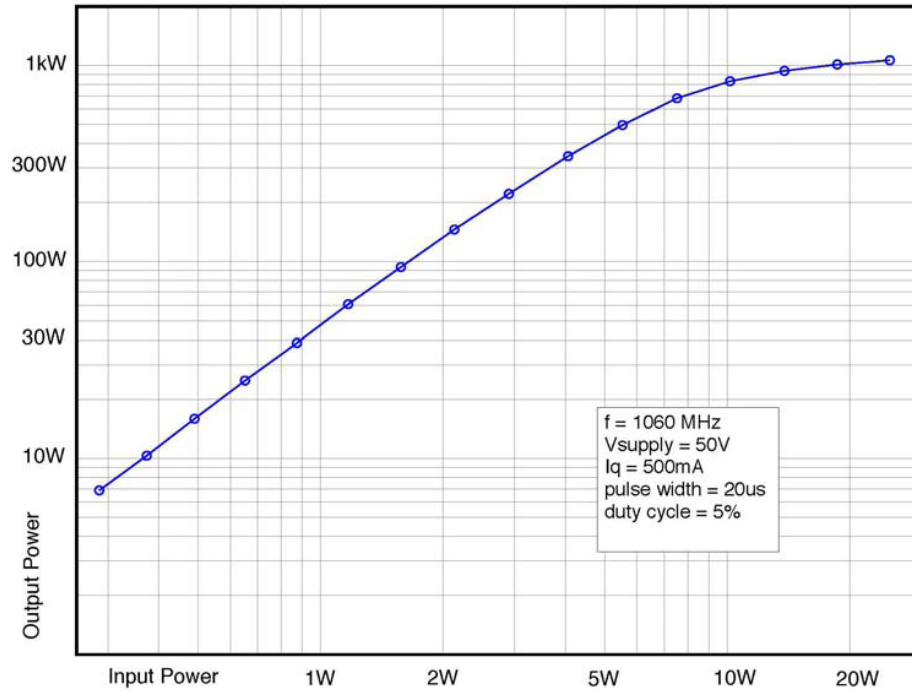


REV. B

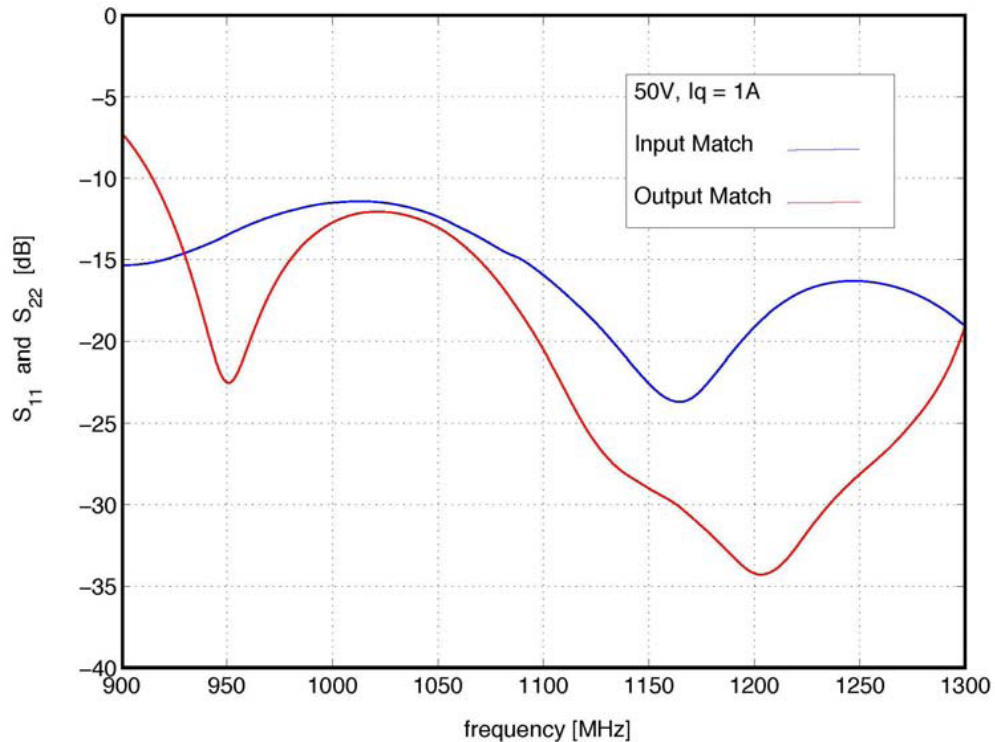
P1000-1215

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Pin vs Pout at 1060 MHz



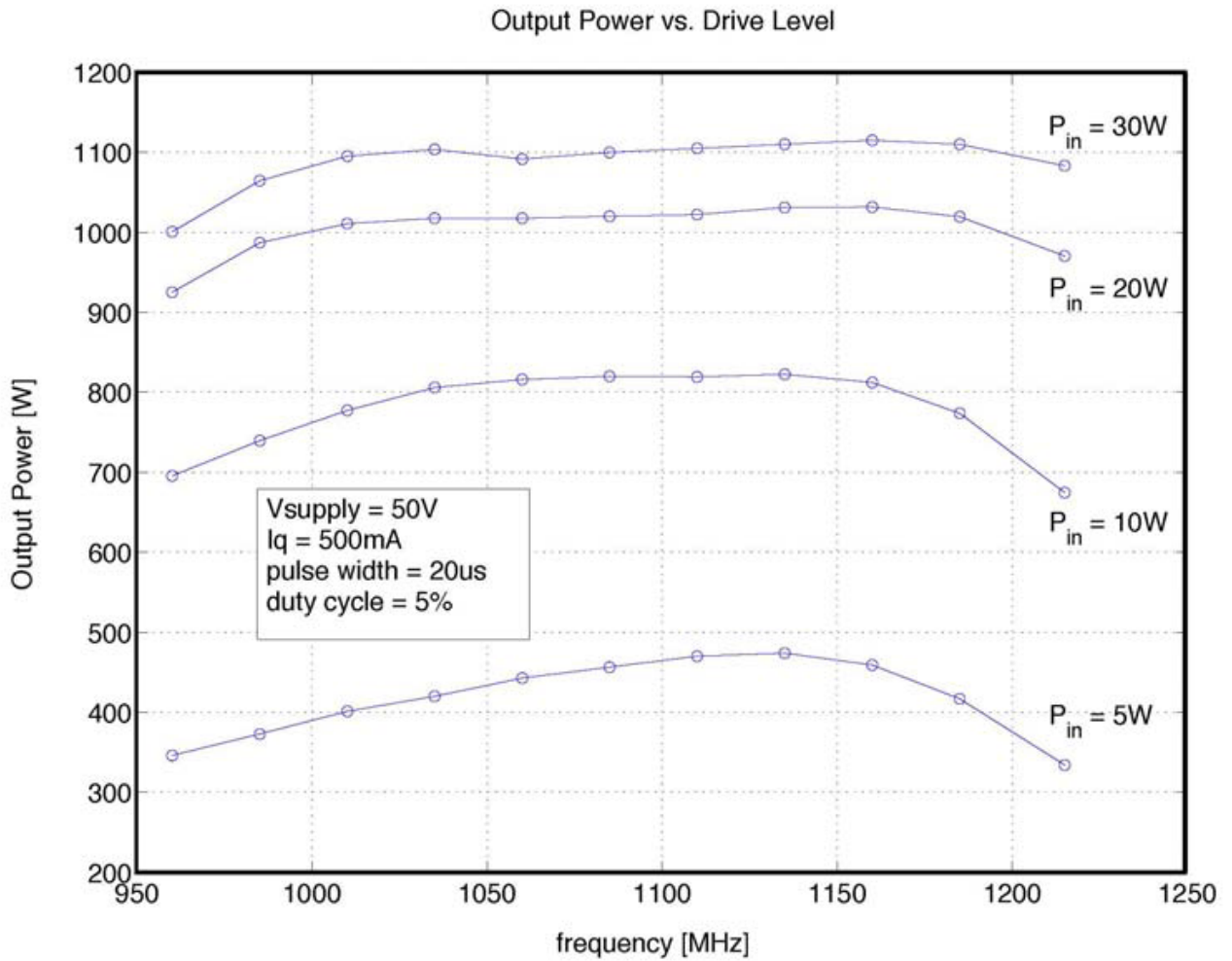
Broadband Pallet Matching



REV. B

P1000-1215

960-1215MHz, 1025-1150MHz, 1030-1090MHz
1kWatt, 50V, 50 Ohm RF Pallet

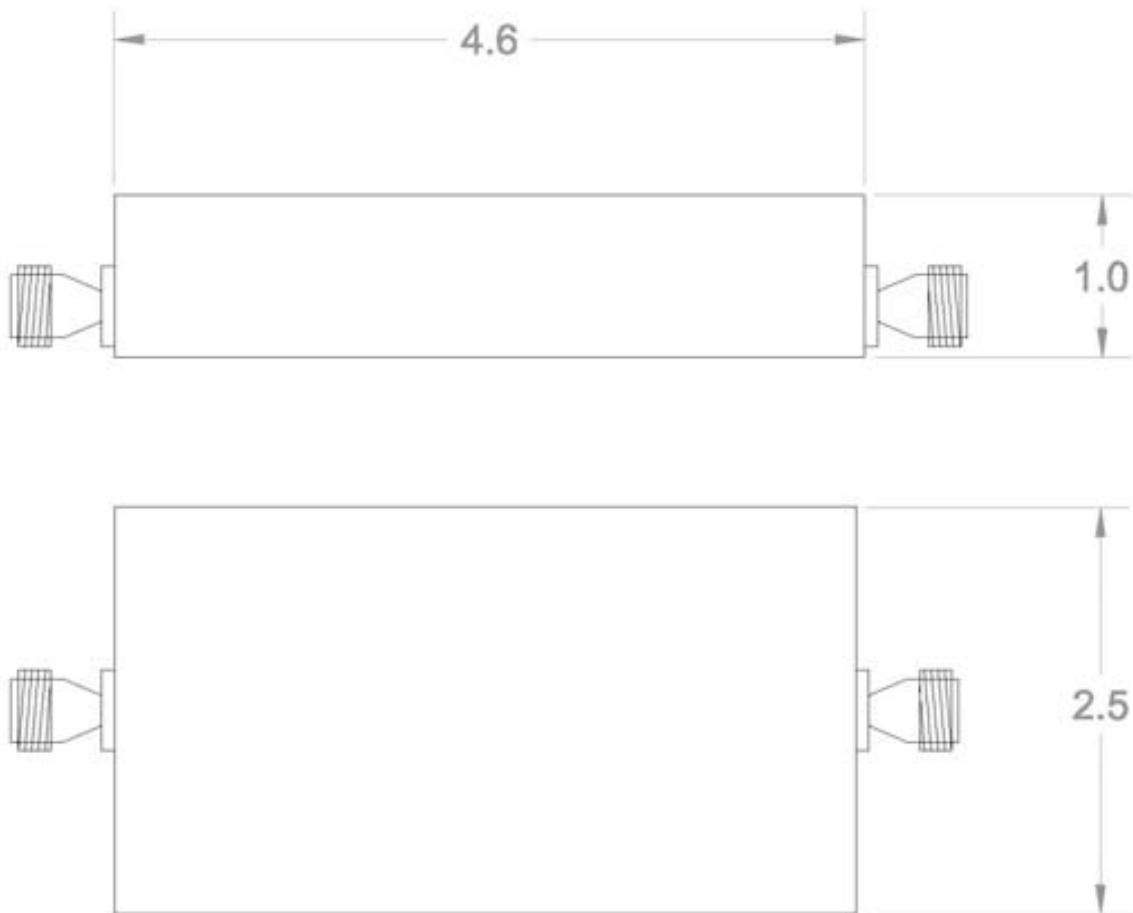


REV. B

P1000-1215

960-1215MHz, 1025-1150MHz, 1030-1090MHz
1kWatt, 50V, 50 Ohm RF Pallet

DIMENSIONS



DIMENSIONS ARE IN INCHES

REV. B