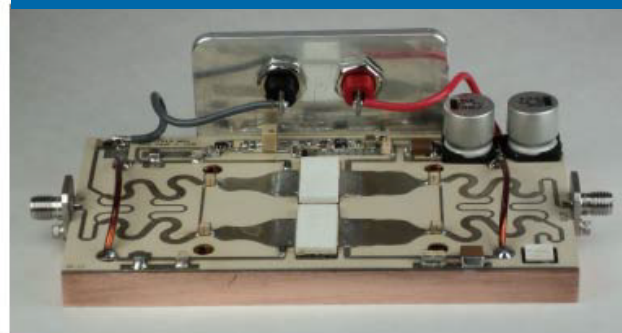


FEATURES

- 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

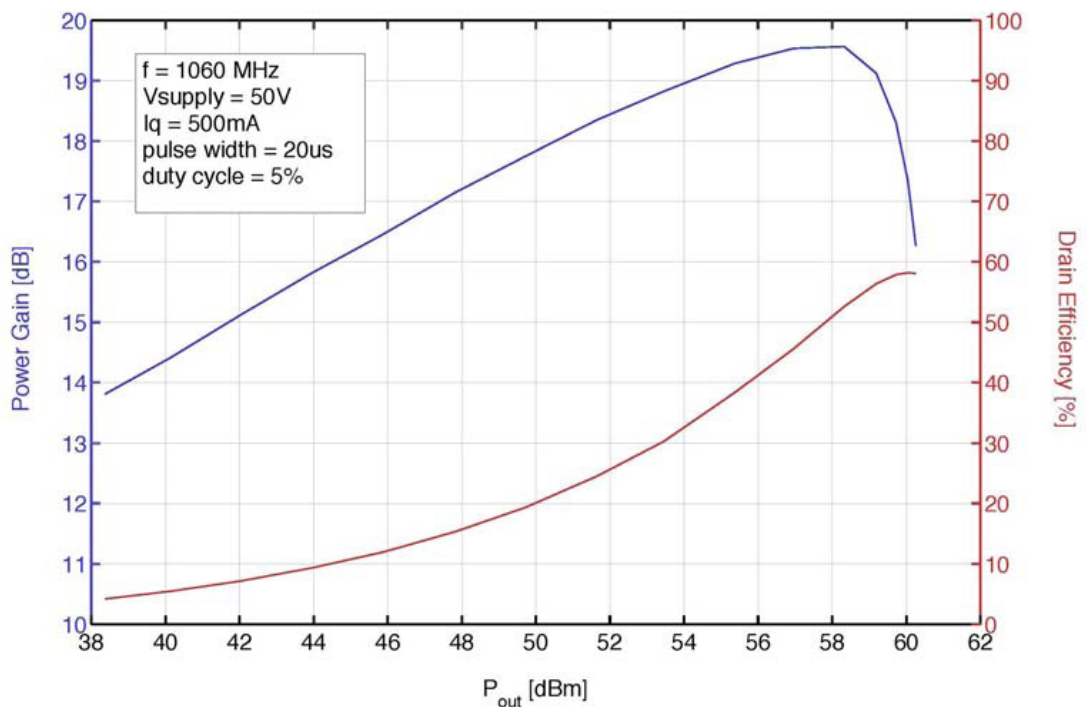
P1000-1215

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

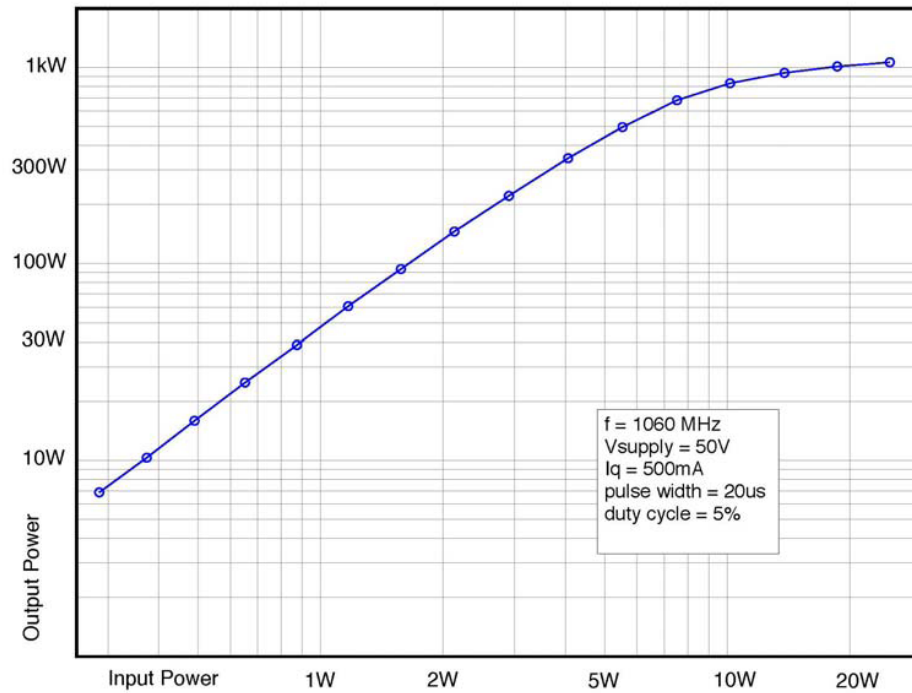


REV. B

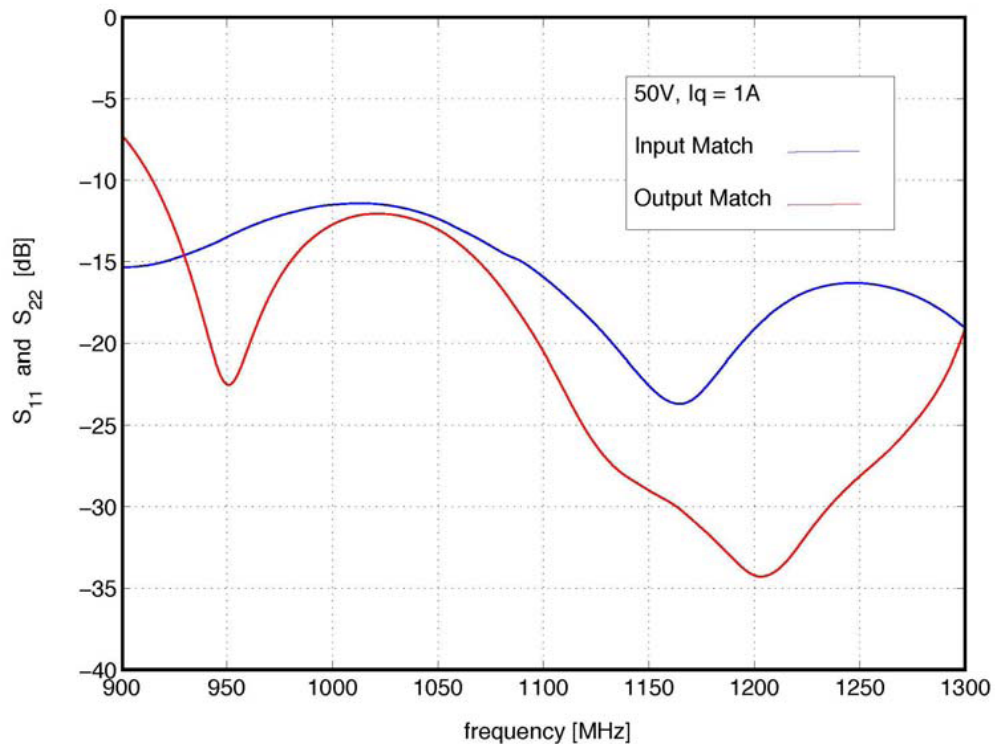
P1000-1215

960-1215MHz, 1025-1150MHz, 1030-1090MHz
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Pin vs Pout at 1060 MHz



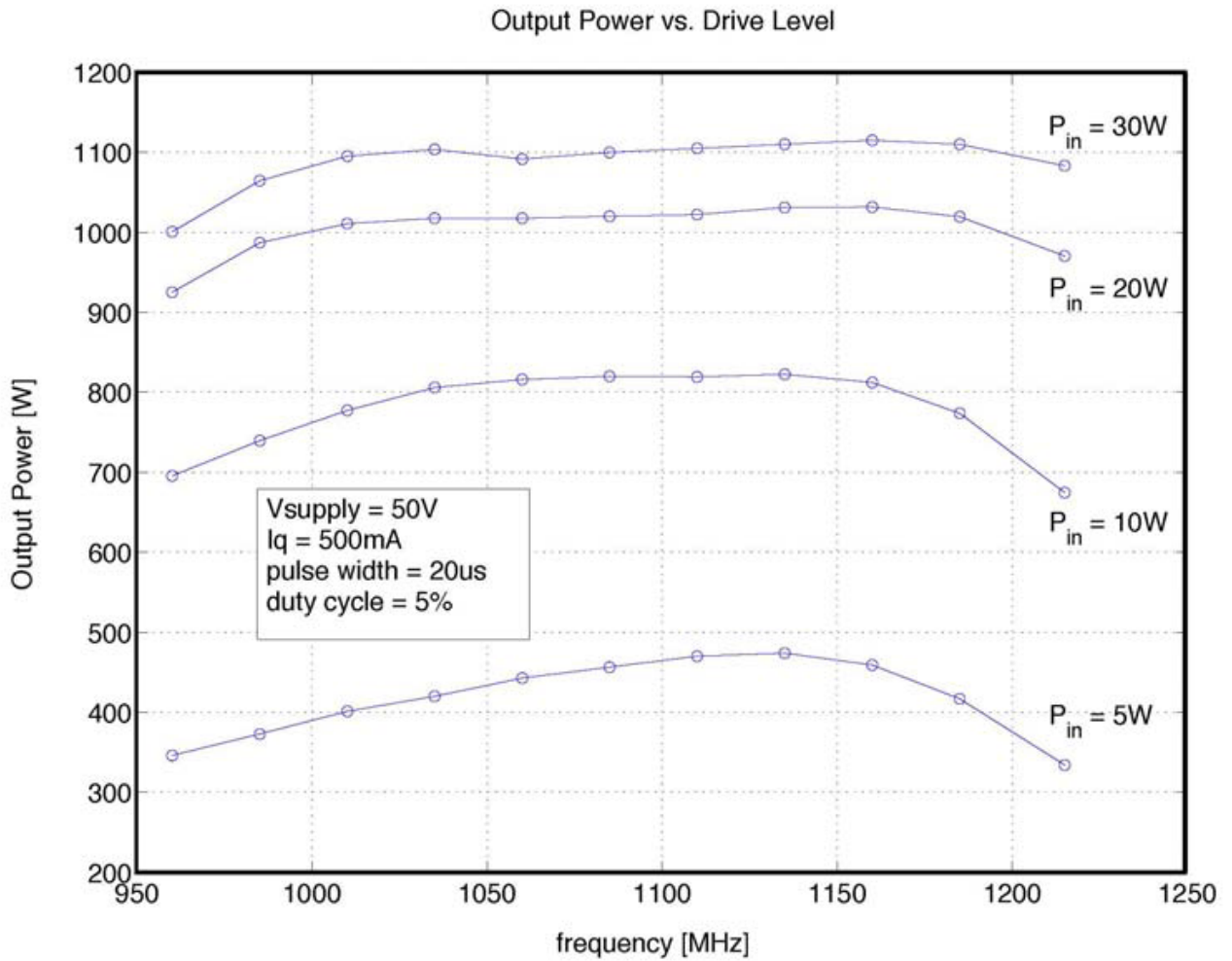
Broadband Pallet Matching



REV. B

P1000-1215

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

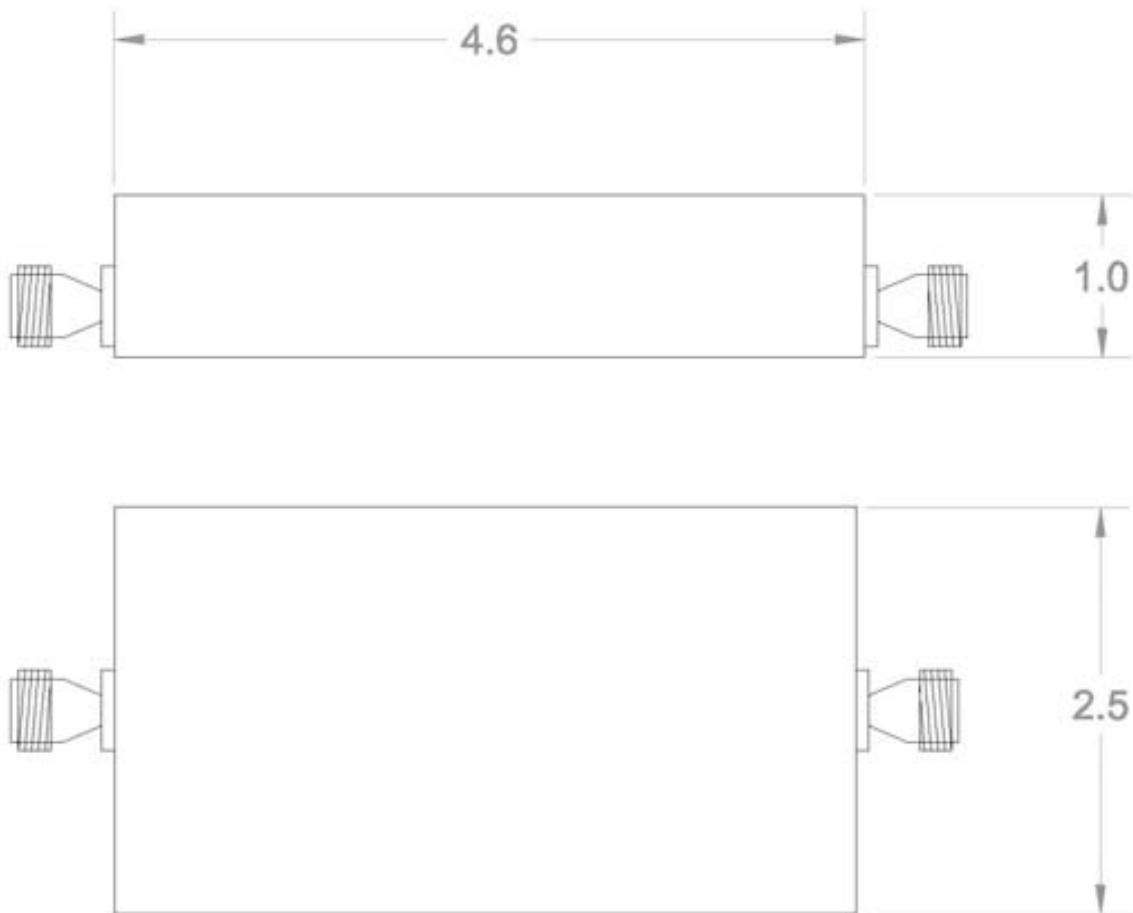


REV. B

P1000-1215

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

DIMENSIONS



DIMENSIONS ARE IN INCHES

REV. B