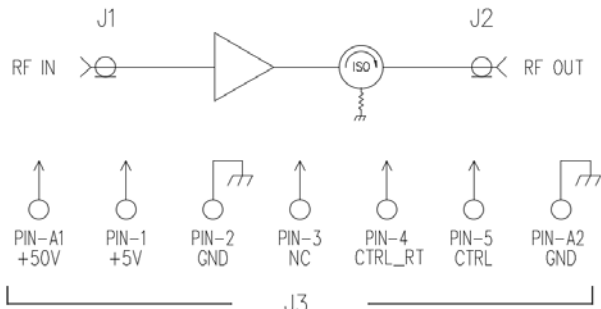


### FEATURES

- LDMOS Technology
- Operating Frequency: 1030/1090MHz
- Peak Power Output: 2.0kW Min
- Power Gain: 30 dB Min
- PAE: 37% Min
- Pulse Width: 40uS Typical
- Pulse Duty Factor: 2% Typ., 5% Max
- Operating Voltage: 50VDC
- Input Survivability +40dBm
- Output Protection: Isolator
- Alarm: VSWR and Over Temp
- Enable Control: TTL High "ON"

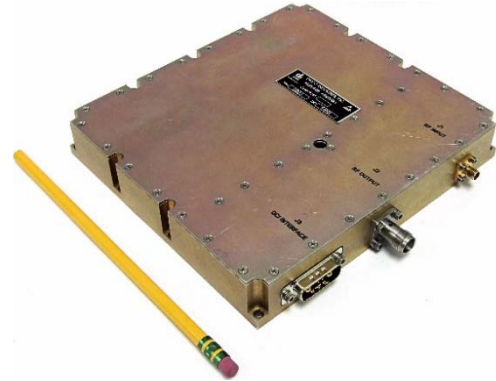
### APPLICATIONS: IFF Pulse Operation

### FUNCTIONAL BLOCK DIAGRAM

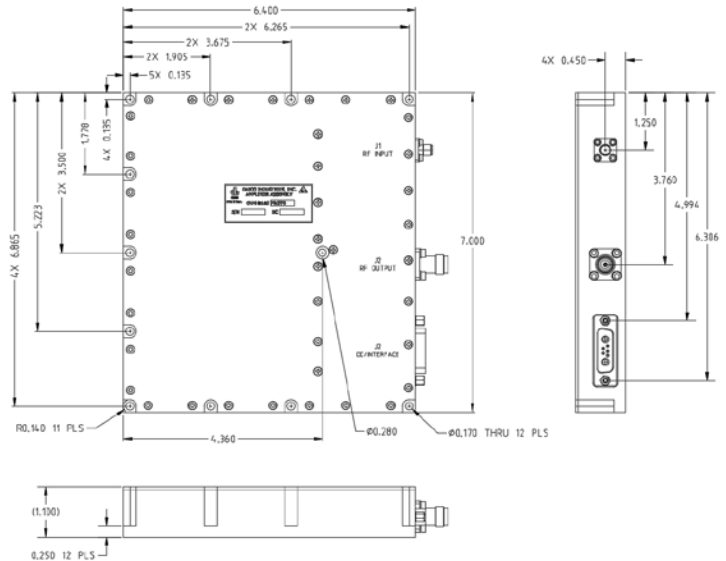


### PRODUCT SPECIFICATION

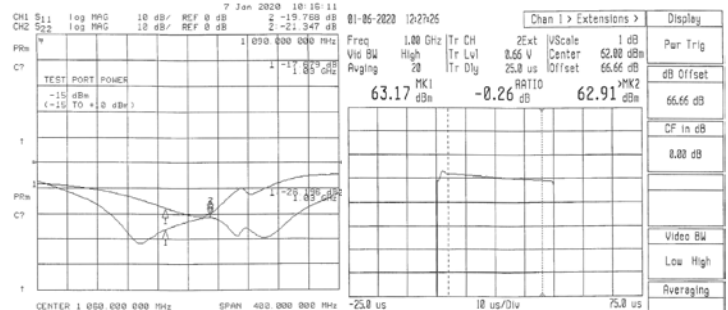
Parameter	Min.	Typ.	Max.	Units	Notes
Frequency	1030		1090	MHz	
Output Power	63.0	63.2	64.0	dBm	Pulse: 40uS 2%
Power Gain	30	30.2	34	dB	Pulse: 40uS 2%
Input Power		30	40	dB	
Dynamic Range	10	15		dB	PA Linearity
PAE	37	38		%	
Droop		0.25	0.50	dB	Pulse: 40uS 2%
Rise Time		35	100	ns	Pulse: 40uS 2%
Fall Time		15	100	ns	Pulse: 40uS 2%
Enabled Delay		2.0	3.0	us	
Input VSWR		1.3:1	1.5:1		
Output VSWR		1.3:1	1.5:1		
Harmonic Components	-35	-40		dBc	2 <sup>nd</sup> , 3 <sup>rd</sup> , and Others
Impedance		50		Ohms	
DC Current		3.5	6.0	A	At 2% and 5% at +50V
Enable Control		+5.0		V	
Temp./VSWR Alarms		+65°C/2.5:1			Output VSWR
Operating Base Temp.	0	+40	+65	°C	



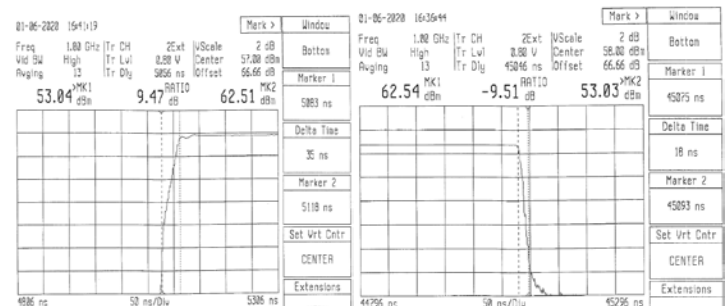
### OUTLINE DRAWING



### TYPICAL PERFORMANCE



Plot 1: INPUT/OUTPUT RETURN LOSS Plot 2: 40uS 2% PULSE DROOP at 1030MHz



Plot 3: 40uS 2% PULSE RISE at 1030MHz Plot 4: 40uS 2% PULSE FALL at 1030MHz