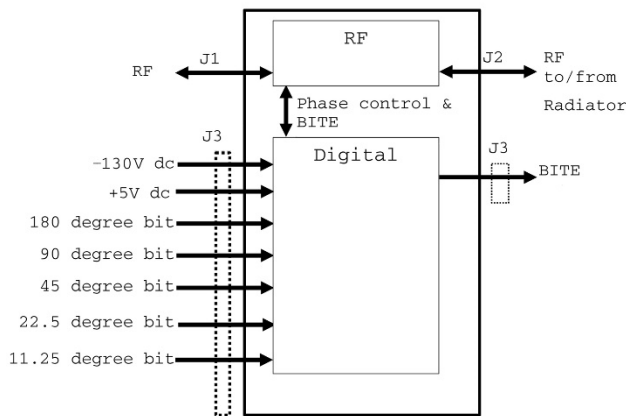


### FEATURES

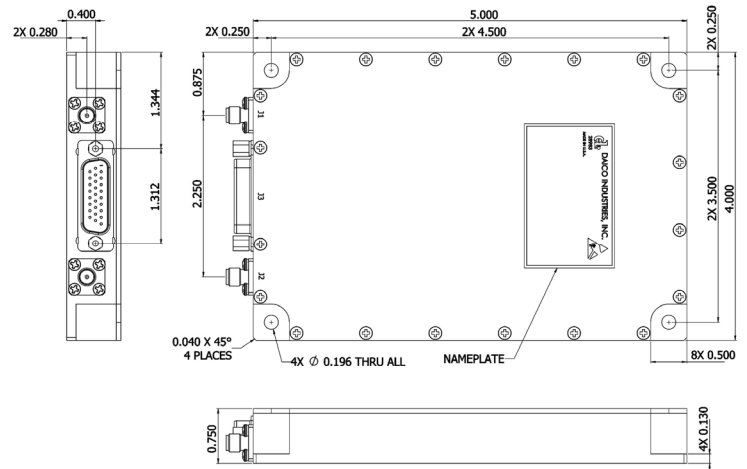
- Frequency Range: 1030 – 1090 MHz
- Insertion Loss: 0.7-1.2dB Max
- Phase Bit: 11.25°, 22.5°, 45°, 90°, 180°
- Power Handling: 2.5kW Max
- Return Loss: 1.5:1 Max
- Switching Speed: 3µs Max
- Operation Voltages: -130VDC & +5VDC
- Operation Temp: -46°C to +105°C
- BIT Output: Open/Short Faults
- Small Profile and Light Weight

### APPLICATIONS: IFF Radar Antenna

### FUNCTIONAL BLOCK DIAGRAM



### OUTLINE DRAWING



### PRODUCT SPECIFICATION

Parameter	Min.	Typ.	Max.	Units	
Frequency	1024	1030	1036	MHz	Transmit
	1084	1090	1096	MHz	Receive
Input Power			64	dBm	PW=32µs, PP=1.67ms, DF=2%
Output Power		63		dBm	PW=32µs, PP=1.67ms, DF=2%
DC Current:	+5V		1.8	A	
	-130V		0.060	A	5KHz PRF
Phase:	Steps			DEG	11.25°, 22.5°, 45°, 90°, 180°
	Accuracy		±6	DEG	From BFSL
	Error		3.0	DEG	rms
Switching speed			3	µsec	50% TTL, within 2° of Final Phase
Switching Transients			0.05	V	Peak Value
Insertion Loss	0.7		1.2	dB	-46°C to +105°C
VSWR		1.4:1	1.5:1		
Impedance		50		Ω	
Temperature	-46		105	°C	

### TYPICAL PERFORMANCE

