

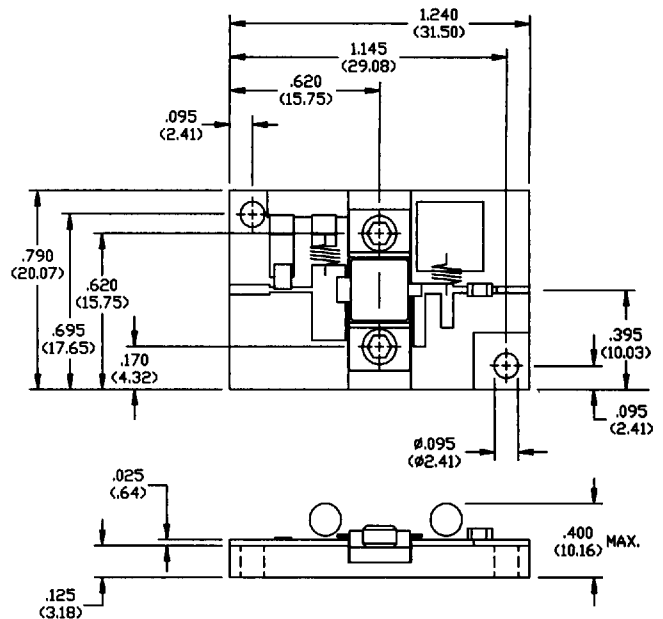


40 Watts, 2.20-3.00 GHz, 2 μ s Pulse, 10% Duty

Features

- Designed for Radar and EW Applications
- Input and Output Matched to 50 Ω
- Class C Pulse Operation

Outline Drawing



UNLESS OTHERWISE NOTED, TOLERANCES ARE INCHES $\pm .005$
(MILLIMETERS $\pm .13$ MM)

Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Supply Voltage	V_{CC}	45	V
Input Power	P_{IN}	12	W
Output Power	P_{OUT}	55	W
Thermal Resistance	θ_{JC}	0.5	°C/W
Power Dissipation	P_D	352	W
Operating Case Temperature	T_C	-30 to +100	°C
Storage Temperature	T_{STG}	-40 to +125	°C

Electrical Characteristics at 25°C

Parameter	Symbol	Min	Max	Units	Test Conditions
Output Power	P_{OUT}	40.0	-	W	$V_{CC}=40$ V, $P_{IN}=8.0$ W, $F=2.20-3.00$ GHz*
Power Gain	G_P	7.0	-	dB	$V_{CC}=40$ V, $P_{OUT}=40$ W, $F=2.20-3.00$ GHz*
Collector Efficiency	η_C	35	-	%	$V_{CC}=40$ V, $P_{OUT}=40$ W, $F=2.20-3.00$ GHz*
Input Return Loss	RL	10	-	dB	$V_{CC}=40$ V, $P_{OUT}=40$ W, $F=2.20-3.00$ GHz*
Load Mismatch Tolerance	VSWR-T	-	3:1	-	$V_{CC}=40$ V, $P_{OUT}=40$ W, $F=2.20-3.00$ GHz*

* Requires a 50 μ F, 50 V External Capacitor

Example Amplifier using PHA2230 Series Modules

