



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Broadband VHF Power Module, 64W

30 - 400 MHz

PHA4000-2

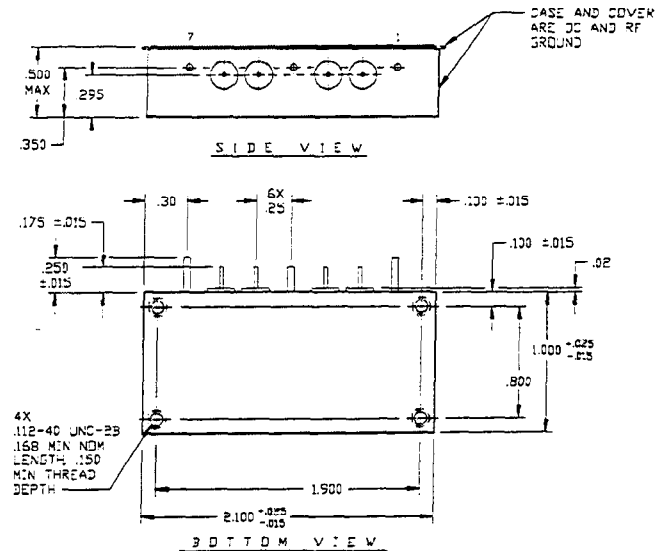
V2.00

Features

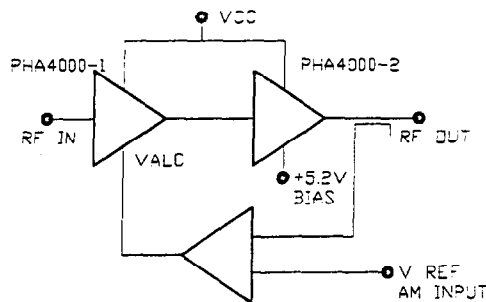
- Broadband Operation 30 to 400 MHz
- High Saturated Output Power - Greater than 54 Watts
- Thousands of Sets in Use Worldwide
- Optimized for Airborne Environment
- Built to MIL Standards

Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Supply Voltage	V_{CC}	30	V
Input Power	P_{IN}	16	W
Output Power	P_{OUT}	80	W
Bias Voltage	V_B	150	mA
Operating Case Temp.	T_C	-30 to +100	°C
Storage Temperature	T_{STG}	-40 to +125	°C



Application



Pin Configuration

Pin	Description
1	Ground (GP1)
2	RF Input (FT1)
3	+5.2 Volts (FT2)
4	Ground (GP2)
5	+27 Volts (FT3)
6	RF Output (FT4)
7	Ground (GP3)

Electrical Characteristics at 25°C

Parameter	Symbol	Min	Max	Units	Test Conditions
Output Power	P_{OUT}	64	-	W	$V_{CC}=27$ V, $P_{IN}=13$ W, $F=30-88, 116-174, 225-400$ MHz
Power Gain	G_P	7	-	dB	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz
Collector Efficiency	η_c	35	-	%	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz
Input VSWR	VSWR	-	4:1	-	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz
Load VSWR Tolerance	VSWR-T	-	2.5:1	-	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz
Gain Variation With Freq	G_{VAR}	-	+/-1.5	dB	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz
Harmonic Output	-	-	-15	dBc	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz
Spurious Output	S	-	-80	dBc	$V_{CC}=27$ V, $P_{OUT}=64$ W, $F=30-88, 116-174, 225-400$ MHz