



Preliminary
16 Watts, 920-960 MHz

Features

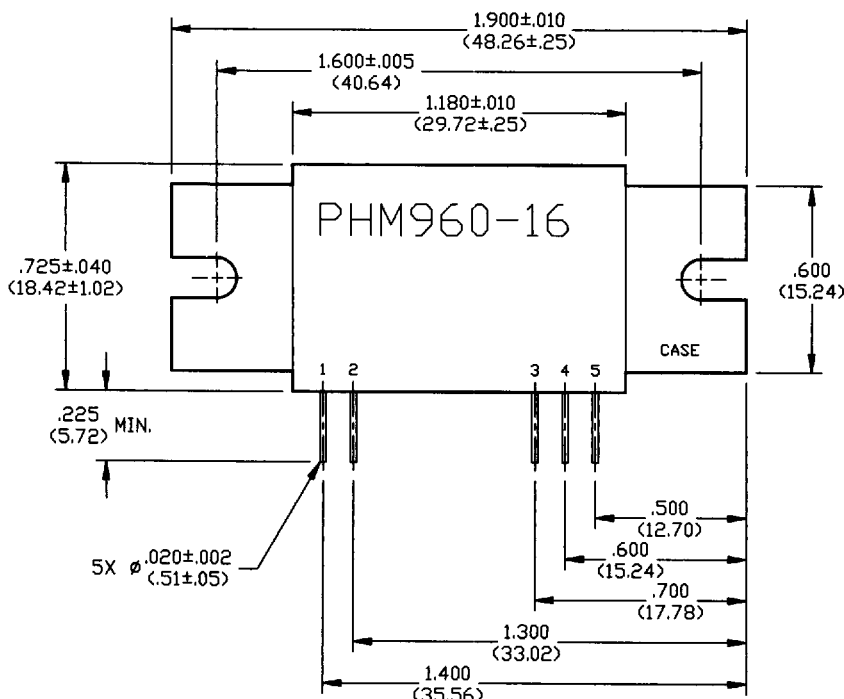
- Linear Bipolar Hybrid Module
- Cellular Base Station Applications
- Input and Output Matched to 50 Ω
- High Linearity, -35 dBc Typ 3rd IMD at 16 Watts PEP
- 27 dB Minimum Gain
- Operating Voltage is 26 V

Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Supply Voltage	V_{CC}	28	V
Input Power	P_{IN}	23	dBm CW
Output Power	P_{OUT}	20	W CW
Power Dissipation	P_D	60	W
Operating Case Temperature	T_C	-10 to +85	°C
Storage Temperature	T_{STG}	-40 to +100	°C

Electrical Characteristics at 25°C

Parameter	Symbol	Min	Max	Units	Test Conditions
Output Power	P_{OUT}	16	-	W	$V_{CC}=26$ V, $P_{IN}=30$ mW, F=920-960 MHz
Power Gain	G_P	27	-	dB	$V_{CC}=26$ V, $P_{OUT}=16$ W, F=920-960 MHz
Collector Efficiency	η_c	35	-	%	$V_{CC}=26$ V, $P_{OUT}=16$ W, F=920-960 MHz
Input VSWR	VSWR	-	2:1	-	$V_{CC}=26$ V, $P_{OUT}=16$ W, F=920-960 MHz
Load VSWR Tolerance	VSWR-T	-	3:1	-	$V_{CC}=26$ V, $P_{OUT}=16$ W, F=920-960 MHz
3rd Order IMD	IMD ₃	-	-27	dBc	$V_{CC}=26$ V, $P_{OUT}=16$ W PEP, F=920-960 MHz
2nd Harmonic	2fc	-	-30	dBc	$V_{CC}=26$ V, $P_{OUT}=16$ W, F=920-960 MHz



PIN ASSIGNMENTS

1	RF INPUT
2	DC BIAS
3	DC SUPPLY (VS1)
4	DC SUPPLY (VS2)
5	RF OUTPUT
CASE	GROUND

UNLESS OTHERWISE NOTED, TOLERANCES ARE

INCHES ±0.005"
(MILLIMETERS ±0.13MM)