PHA2731-140L



Radar Pulsed Power Module, 140W, 300 µs, 10% Duty 2.7 - 3.1 GHz

Rev. V4

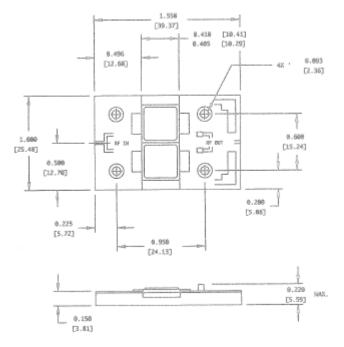
Features

- NPN Silicon Power Transistors
- Input and Output Matched to 50W
- Duroid Circuit Board
- Easily Combined For High Power Transmitters
- Plated Copper Flange

Absolute Maximum Ratings at 25°C1

Parameter	Absolute Maximum
Supply Voltage	40V
Input Power	35W
Output Power	200W
Thermal Resistance	0.4° C/W
Power Dissipation	380W
Operating Case Temp.	-30 to +100°C
Storage Temperature	-40 to +125°C

Operation of this device outside any of these limits may cause permanent damage.



Unless Otherwise Noted, Tolerances Are: Inches -0.005" (Millimeters -0.13mm)

Electrical Characteristics at°25 C

Parameter	Symbol	Test Conditions	Units	Min.	Max.
Output Power	P _{OUT}	V _{CC} =36, P _{IN} =28 W, F=2.70, 2.90, 3.10 GHz	W	140	-
Power Gain	G_P	V _{CC} =36, P _{OUT} =140 W, F=2.70, 2.90, 3.10 GHz	dB	7	-
Collector Efficiency	η _C	V _{CC} =36, P _{OUT} =140 W, F=2.70, 2.90, 3.10 GHz	%	35	-
Input VSWR	VSWR	V _{CC} =36, P _{OUT} =140 W, F=2.70, 2.90, 3.10 GHz	-	-	2:1
Load VSWR Tolerance	VSWR-T	V _{CC} =36, P _{OUT} =140 W, F=2.70, 2.90, 3.10 GHz	1	1	2:1
Load VSWR for Stability	VSWR-S	V _{CC} =36, P _{OUT} =140 W, F=2.70, 2.90, 3.10 GHz	1	1	1:5:1
Pulse Droop	D_P	V _{CC} =36, P _{OUT} =140 W, F=2.70, 2.90, 3.10 GHz	dB	-	1

[•] North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

India Tel: +91.80.43537383
China Tel: +86.21.2407.1588
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