



1860 Hartog Drive, San Jose, CA 95131
 TEL: 408-436-7723 FAX: 408-436-7698

40 Watt PCS Band GSM POWER AMPLIFIER

Parameter	Specification
Frequency Range	PD-GSM1800-40 1805-1880 MHz
Pout, average	40 Watts, 46.0 dBm
P1dB	46 dBm
Gain	48 $\pm$ 1.0 dB
Gain Flatness over dynamic range, temperature, frequency range	$\pm$ 1.0 dB
Dynamic Range	> 30 dB
Output Isolator	On output
Input Return Loss	14 dB
Output Return Loss	14 dB
Second Harmonic	<-36 dBc
Harmonics, 3rd and greater	<-60 dBc
Supply Voltage	+27 V, 5.5 Amps, 40 watts RF
Cooling	Conduction through base plate
Package Dimensions/ Outline	See drawing below
Environmental Conditions	
Operating Temperature	-10°C to +70°C
Storage Temperature	-40°C to +85°C
Operating Humidity	20 to 80 % RH
Storage Humidity	5 to 95 % RH



PREMIER DEVICES

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Pin	Function
DC Power (A1)	+27V
Return (A2)	+27V Return
(Pins 1 & 2)	NC
(Pin 3)	GND
Temperature Detection (Pin 4)	Analog, LM 50 output
(Pins 5 & 6)	GND
(Pin 7)	NC
(Pin 8)	NC
Over Temperature Alarm (Pin 9)	TTL Low = > 85°C, TTL High = Normal
Over Power (Pin 10)	TTL Low = > 50 Watts, TTL High = Normal
Overdrive Alarm (Pin 11)	TTL Low = Input Power > 0 dBm
PA Disable (Output) (Pin 12)	TTL Low = PA Disabled
PA Enable (Input) (Pin 13)	TTL Low = PA On TTL High or Open = PA Off
Forward Power (Pin 14)	0-5 V
(Pin 15)	NC

PACKAGE DRAWING

