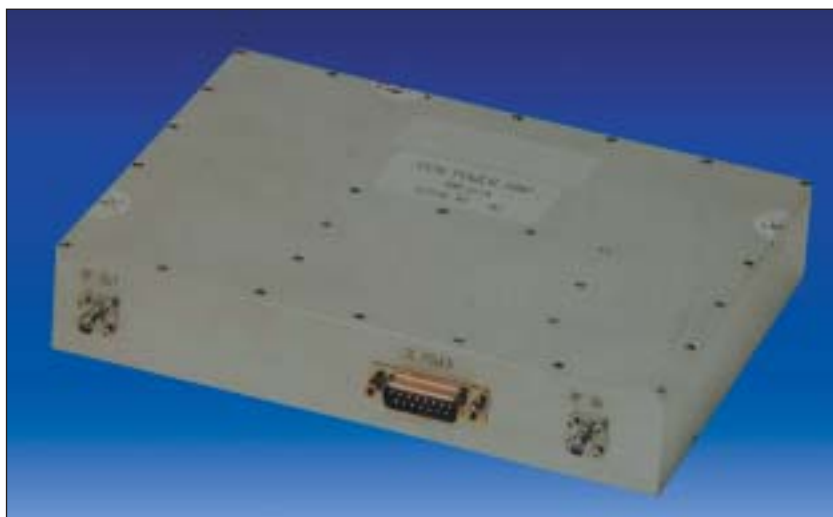


SOLID STATE 40 W POWER AMPLIFIER FOR GSM 1800 BASE STATIONS



GENERAL INFORMATION

MCE DML Microwave has designed this 40W Power Amplifier for use in GSM 1800 (PCS 1900 version available) Base Station applications

ADVANTAGES

- 40W RF output power at P-1dB compression
- Integral output isolator with 100W internal load
- Low operating DC current
- RF output detector
- Class 'A' operation

SPECIFICATIONS

Model No.	DMA 6174	DC Supply	+12 Volts +/- 0.1 V
Frequency range	1.70 - 1.90 GHz	Operating Temperature (case)	-10° C to +70° C
-1dB Compression point	+ 46 dBm min	Spurious outputs	-65 dBc max
Third Order intercept point	+55 dBm min +56 dBm typ.	DC Power supply current	15A max for RF Output levels < +44.8 dBm 16.5A max at Saturation (+47 dBm typ.)
Small signal Gain @ +25° C	55 dB min 57dB max	RF Output detector	+5 V +/- 0.1 V for +39 dBm at 1.8 GHz and +25° C Buffered with Op-Amp
Gain variation with frequency	+/- 1.0 dB max	RF Input interface	SMA Female
Gain stability with temperature	+/- 1.5 dB max	RF Output interface	SMA Female
Harmonic Outputs @ +39 dBm O/P	-50 dBc max	Power supply interface	15 way DX-Type plug. Screw-lock fixing posts
Noise figure @ +25° C	6 dB max	Weight	1.5 kg
Input return loss	15 dB min	Cooling System	Heatsink required to maintain amplifier case temperature below +70° C
Output return loss	17 dB min		

DATA SHEET MD67

Edition 1



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DML MICROWAVE

