



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9887
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 4053

925 - 960 MHz
100 WATTS GSM (4 CARRIER)
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4053 is a 100 Watt, 8 carrier GSM amplifier that covers the 925 – 960 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. The 4053 comes with an extended multiyear

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	925 – 960 MHz
2	GSM Output Power	100 Watts typical (8 Carrier)
3	ACPR @ ± 200 KHz	-40 dBc @ 100 Watts
4	Small Signal Gain	50 dB typical
5	Small Signal Gain Flatness	± 0.75 dB max
6	Input VSWR	2:1 max
7	Harmonics	-40 dBc typical @ 100 Watts
8	Spurious Signals	< -60 dBc typical @ 100 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	1250 Watts max
11	AC Input	220 VAC, single phase
12	RF Input	0 dBm typical
13	RF Input Signal Format	GSM 8 Carrier
14	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	19" x 7.0" x 22"
16	Weight	60 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

INCLUDED FEATURES

- ◇ Rear Panel Connectors
- ◇ Amplifier RF Hi/Lo Power Indicator and Uncalibrated Amplified DC Detector Voltage (rear panel DB9-F)
- ◇ Amplifier RF Hi/Lo Power Switch Control Line (<10ma, Open Collector Output) (rear panel DB9-F)
- ◇ Hi/Low Power Indicator illuminates when GSM power is LESS than approximately 20 Watts
- ◇ RF Output Isolator

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

