



**Eyal MAG Ltd.**

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***MULTI CARRIER POWER AMPLIFIER  
FOR PCS REPEATER SYSTEMS  
CDMA IS-95C, Cdma2000 10 CARRIERS  
MCPA-2226A PCS 60 W***

**Features:**



- **CDMA IS-95C, Cdma2000 10 CARRIERS**
- **1840 to 1860 MHz**
- **60 W Output Power**
- **53 dB Gain**
- **27 V DC Voltage Range**
- **- 40°C to +85°C Operating Temperature Range**

**Feedforward Technology**

- **Linear Main Amplifiers Design, Utilizing LD-MOS Transistors.**
- **Optimum Error Amplifier Design for Perfect IMD Suppression.**
- **Low Loss Delay Filters.**
- **Innovative Adaptive Feedforward Correction Algorithm (Pending Patent).**
- **DSP Based Controller.**
- **Superior IMD Suppression Over The Full Operating Frequency and Temperature Range.**
- **Minimized DC Current, High Efficiency.**
- **Alarms and Indications Per Customer Request.**
- **Mechanical Design: Rack Mount and Modules**



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**SPECIFICATION SUMMARY**  
**FOR PCS MCPA FOR REPEATER SYSTEM**  
**MCPA-2226A/PC**

PARAMETERS	SPEC.
FREQ. RANGE	KTF 1840-1860 MHz
OPERATING BANDWIDTH	20 MHz (30 MHz Option)
GAIN	53 dB $\pm$ 0.8 dB
GAIN FLATNESS	$\pm$ 0.2 dB Over any 5 MHz
GAIN Vs TEMP.	$\pm$ 1.25 dB
10 CDMA CARRIERS	60 W
IMD AT $\pm$ 885 KHz @ 60 W, 10 CARRIERS CDMA IS-95C	-48 dBc/30 KHz RBW TYPICAL AT 25°C (In & Out of Band)
IMD AT $\pm$ 1.98 MHz @ 60 W, 10 CARRIERS CDMA IS-95C	-50 dBc/30 KHz RBW TYPICAL AT 25°C (In & Out of Band)
Spurs AT $\pm$ 2.25 MHz @ 60 W, 10 CARRIERS CDMA IS-95C	-15 dBm/1 MHz TYPICAL AT 25°C (In & Out of Band)
SUPPLY VOLTAGE	27 V $\pm$ 1 V 24 V to 29 V with IMD degradation
SUPPLY CURRENT	Typical 27 A / 29 A max (Po=60 W)
ALARMS	TEMP.
	V.S.W.R
	OVER POWER
	DC FAIL
INDICATIONS	FORWARD POWER MONITOR
	TEMPERATURE MONITOR
CONNECTORS	IN: SMA/F
	OUT: N-TYPE
	SAMPLED OUT: N/A
OPERATING TEMP. RANGE	-30°C $\div$ +60°C AMBIENT
STORAGE TEMP. RANGE	-40°C- +85°C
SIZE	354.9 x 300 x 60 mm
TYPE	ADAPTIVE FEED FORWARD