



Eyal MAG Ltd.

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***MULTI CARRIER POWER AMPLIFIER
FOR PCS REPEATER SYSTEMS
CDMA IS-95C, CDMA2000: 10 Carriers
MCPA-2223A (10FA) 30 W***

Features:



- **CDMA IS-95C, Cdma2000 10 CARRIERS**
- **1840 to 1860 MHz**
- **30 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-2223U/PCS**

PARAMETERS	SPEC.
FREQ. RANGE	(KTF BAND) 1840-1860 MHz
OPERATING BANDWIDTH	20 MHz
GAIN	53 dB \pm 0.8 dB
GAIN FLATNESS	\pm 0.2 dB Over any 5 MHz \pm 0.4 dB Over any 20 MHz
GAIN Vs TEMP.	\pm 1.25 dB
OUTPUT CW POWER	30 W
10 CDMA CARRIERS	30 W
ACPR AT \pm 885 KHz @ 30 W, 10 CARRIERS CDMA IS-95C	-45 dBc/30 KHz RBW/300 Hz VBW TYPICAL AT 25°C IN & OUT OF BAND
ACPR AT \pm 1.98 MHz @ 30 W, 10 CARRIERS CDMA IS-95C	-47 dBc/30 KHz RBW/300 Hz VBW TYPICAL AT 25°C IN & OUT OF BAND
ACPR AT \pm 885 KHz @ 30 W, 10 CARRIERS CDMA IS-95C	-43 dBc/30 KHz RBW/300 Hz VBW OVER TEMPERATURE IN & OUT OF BAND
ACPR AT \pm 1.98 MHz @ 30 W, 10 CARRIERS CDMA IS-95C	-45 dBc/30 KHz RBW/300 Hz VBW OVER TEMPERATURE IN & OUT OF BAND
ABS POWER AT \pm 2.25 MHz @ 30 W, 10 CARRIERS CDMA IS-95C	-13dBm/1MHz RBW 30 kHz / VBW 300 Hz
SUPPLY VOLTAGE	27 V \pm 1 V
SUPPLY CURRENT	Typical 12.7 A / 14 A max (Po=30 W)
ALARMS	TEMP.
	V.S.W.R
	OVER POWER
	OVER VOLTAGE
INDICATIONS	FORWARD POWER MONITOR
CONNECTORS	TEMPERATURE MONITOR
	IN: SMA/F
	OUT: SMA/F
	SAMPLED OUT: SMA/F
OPERATING TEMP. RANGE	-30°C \div +60°C AMBIENT
STORAGE TEMP. RANGE	-40°C- +85°C
SIZE	354.9 x 266.7 x 54 mm
TYPE	ADAPTIVE FEED FORWARD