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To: CKC LABORATORIES

Attention: Randal Clark

AMPLIFIER DESCRIPTION: MODEL NUMBERS 801102, 801103, and 801103

Frequency	824-849MHz Uplink 869-894MHz Downlink		
	43dB	50dB	60dB
Gain (up/down)	(43dB/43dB)	(50dB/50dB)	(60dB/60dB)
Flatness (up/down)	(+/- 4dB/+/-4dB)	(+/- 4dB/+/-6dB)	(+/- 4dB/+/-6dB)
Max RF (up/down)	(+31.7dBm/+10dBm)	(+31.7dBm/+10dBm)	(31.7dBm/+10dBm)
Noise Figure (down)	(3dB nominal)	(3dB nominal)	(3dB nominal)
Isolation Uplink/Downlink	More than 90dB		
Power Consumption	13.8V, 2A		

Supported Modulations: TDMA136, JTACS, GSM EDGE (EGSM), WCDMA, GPRS, and CDMA

Operational Description: The in building amplifier is a bidirectional linear amplifier that receives signals from a cell site and transmits them inside the building at a maximum RF downlink (RX) power of 10dbm (conducted). It also transmits signals from the phone back to the cell site at a maximum uplink (TX) power of +35dbm (conducted).

UPLINK PA RF3108:

Power consumption for **AMPS** modulation **1.25A 5V 6.25watts TX 1watt**

Power consumption for all other stated modulations **1.75A 5V 8.75watts TX 1.5watts**
(25% DUTY CYCLE)

DOWNLINK SGA-3586 MMIC:

Power consumption for all stated modulations **35MA 3.3V 80mw RX 10mw**

MAXIMUM POWER CONSUMPTION FOR AMPLIFIER: 2A 13.8V 27.6watts