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To: CKC LABORATORIES

Attention: Randal Clark

AMPLIFIER DESCRIPTION: MODEL NUMBERS 804003 and 804004

| Frequency | 806-821MHz Uplink | 851-866MHz 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: TDMA

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 all 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