RF-LAMBDA

The power beyond expectations

RFLFFPA00881-30W

30W CDMA Feed Forward Amplifier 869MHz~894MHz

- Average Power 30W
- Applicable for base station, repeaters of CMDA 800/900MHz cellular network
- Feed forward Linearization
- CDMA multi-carrier operation
- High Peak to average handle capability
- High Linearity and High efficiency design
- Customized alarms and protections.

Frequency Range:	**869MHz-894MHz**
Average Output Power:	**45 dBm**
RF Gain:	**55dB +/-1dB**
Flatness:	**+/-0.5dB**
Gain Variation Over Base plate Temperature Range (-25 to +60 degree C):	**+/-1dB**
IMD	**-60dBc@42dBm/ tone**
Spurious Emissions:	**-45dBc@+/-750KHz**
	-65dBc@+/-1.98MHz(30W)
	-60dBc@+/-1.98MHz(30W)
Input / Output Return Loss:	**15dB min**
Output Protection:	**Isolator**
DC Current:	**10A@ 28V**
Operating Base plate Temperature Range:	**-25 to +60 degree C**
Storage temperature Range:	**-40 to +85 degree C**
Over Power Alarm	**47dBm +/-1dB**
VSWR Alarm	**4:1 (optional)**
Over Temperature Alarm	**+85 +/-5 degree C**
Enable/Disable	**Enable (Low)**
Alarm Status	**Low (alarm)**
RF Connectors:	**RF Input (SMA Female)**
	RF Output (SMA Female)
Cooling:	**Natural Convection**
Convection Size (Length x Width x Height):	**305 x 259 x 51 mm**

30W CDMA Feed Forward Power Amplifier 869MHz~894MHz

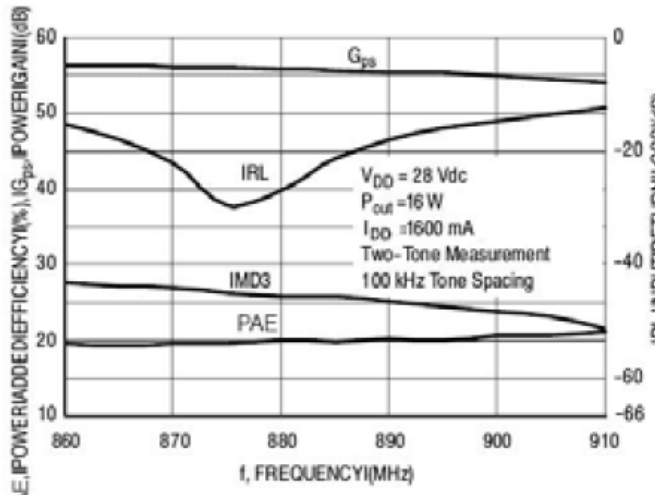


Figure 1. Two-Tone Wideband Circuit Performance @ P_{out} =16 Watts

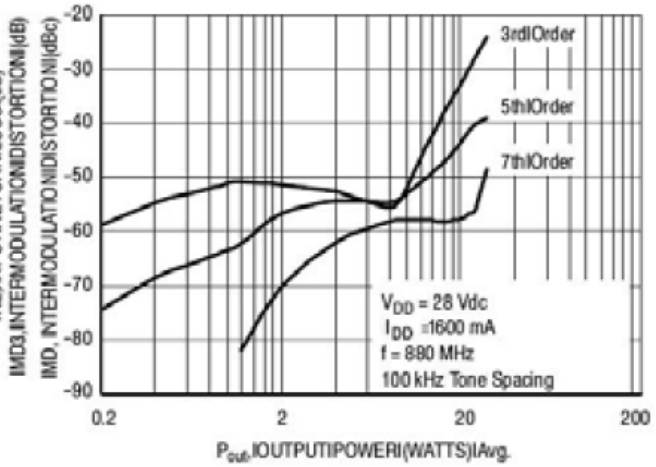


Figure 2. Intermodulation Distortion Products versus Output Power

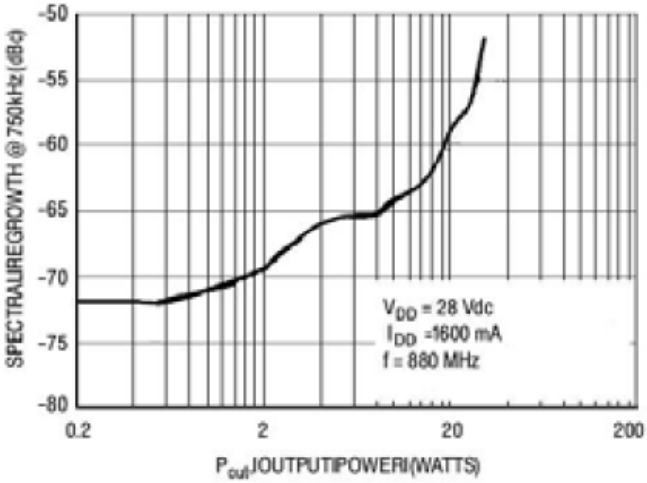


Figure 3. Spectral Regrowth at 750 kHz versus Output Power

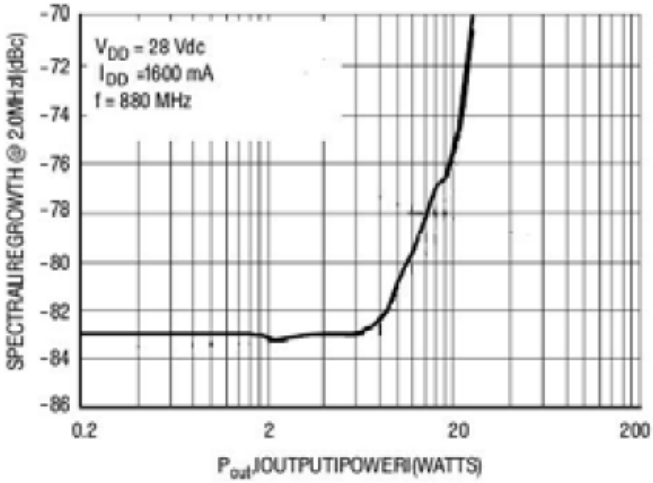
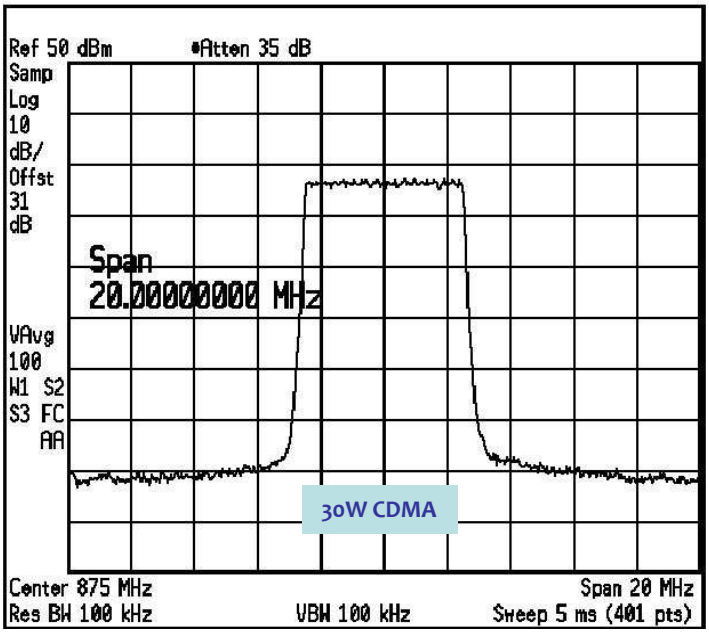
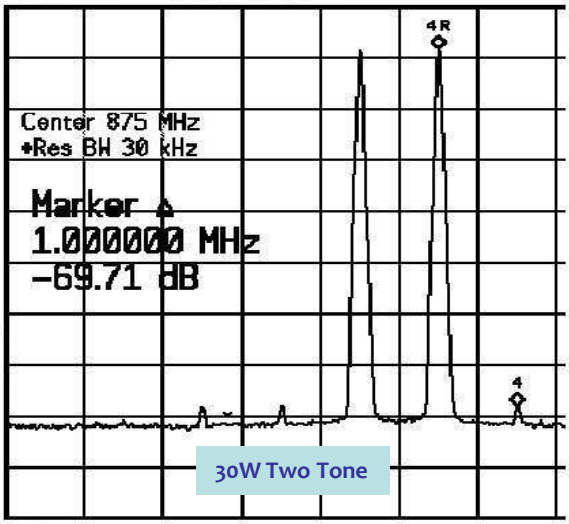
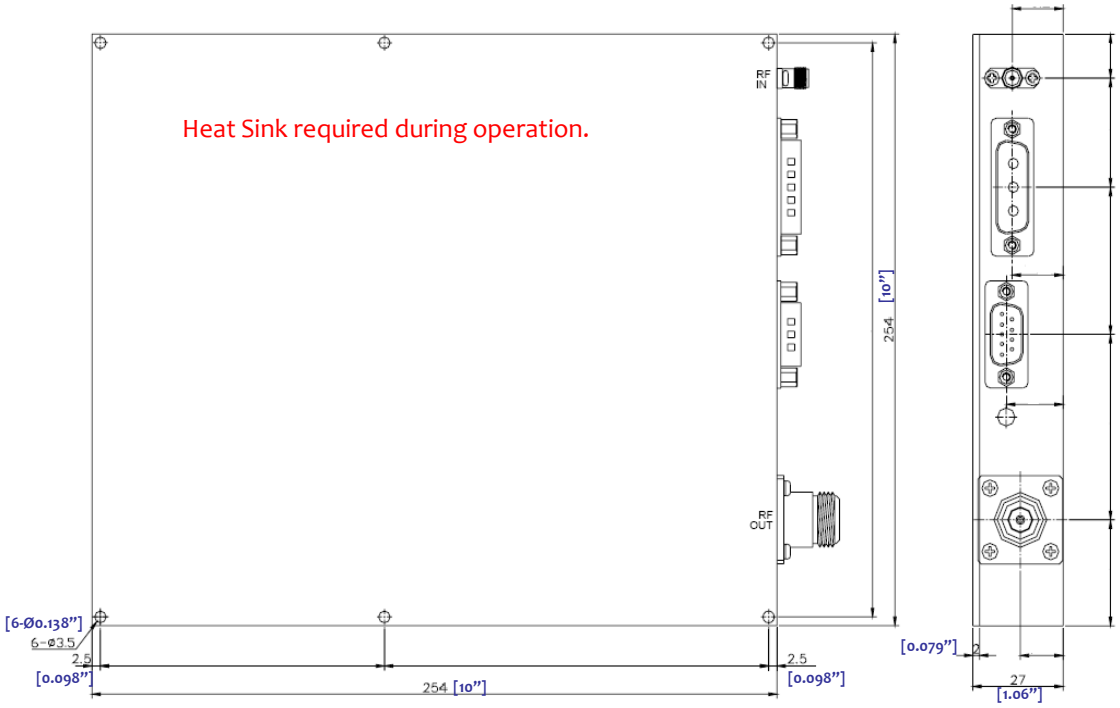


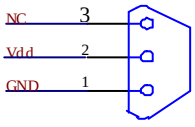
Figure 4. Spectral Regrowth at 2.0 MHz versus Output Power

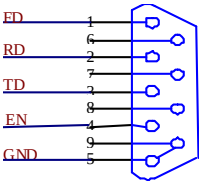




30W CDMA Feed Forward Power Amplifier 869MHz~894MHz







Pin 1: Over power alarm
Pin 2: Output VSWR alarm
Pin 3: Over temperature alarm
Pin 4: PA enable or disable
Pin 5 Pin 9: GND
Pin 6,7,8: N/C