

### 3V HBT TDMA Power Amplifier IC

### TQ7625

#### Selected Electrical Characteristics

Test Conditions:  $V_{CC} = +3.5V$ ,  $T_C = 25^\circ C$ ,  $V_{BIAS} = 2.75V$

Parameter		Min.	Typ.	Max.	Units
Usable Frequency Range		1850		1910	MHz
TDMA Output Power			28		dBm
TDMA Power Added Efficiency			40		%
ACP, Pout = +28 dBm			-30		dBc
ALT, Pout = +28 dBm			-53		dBc
Large Signal Gain			27.5		dB
Small Signal Gain (Vmode=low)			26		dB
Receive Band Noise			-92		dBm/30KHz
Quiescent Current, uses V <sub>mode</sub> Switching	Vmode= low		60		mA
	Vmode= high		80		mA
V <sub>mode</sub> , Externally Switched.	P <sub>OUT</sub> <=+15dBm	0	0	0.3	V
	P <sub>OUT</sub> =+28dBm	2.65	2.75	2.85	V
Second Harmonic, P <sub>OUT</sub> =+28dBm			-45		dBc
Third Harmonic, P <sub>OUT</sub> =+28dBm			-55		dBc

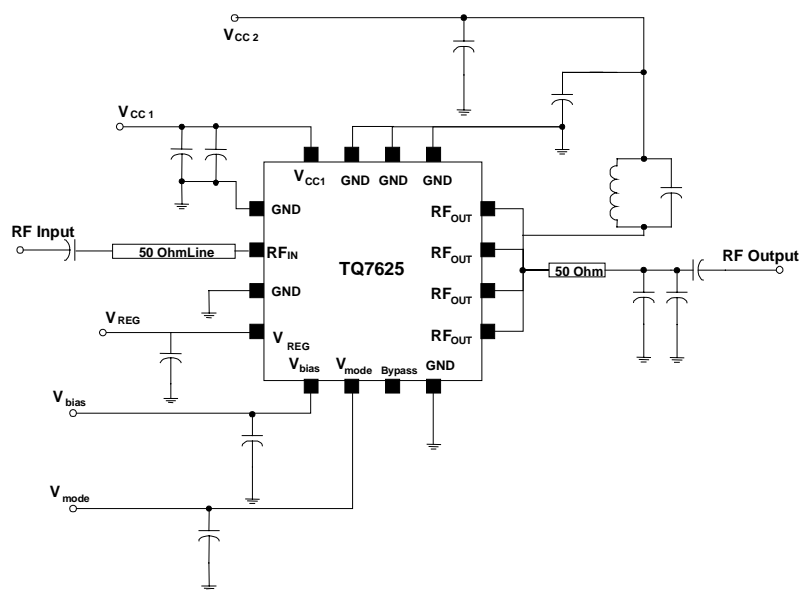
#### Primary Application(s)

- IS-136 Mobile Phones
- Dual Band Mobile phones

#### Key Features

- High Efficiency
- Low Quiescent Current, Mode Selectable
- Small size 3x3 mm leadless package
- Few external components
- Excellent ACP Performance
- Single +2.7V Supply

#### Application Circuit, US PCS Band



#### Package: 3x3 mm

Leadless 16 pin

