0.5um Switch PHEMT Process

- GCS has developed a low-cost, high-performance PHEMT process specifically for cell phone and WLAN RF Switch and LNA applications
- Process includes semiconductor resistor and MIM capacitor
- Low insertion loss, high isolation and low harmonics
- This process has been qualified and in production since 2003
Low Cost PHEMT Switch for GSM

**GSM SP6T PHEMT Switch**

- Insertion Loss ~ 0.3 dB, Isolation loss > 21 dB

**2nd Harmonic**

**3rd Harmonic**
GCS’ PHEMT GSM switches generate harmonic levels lower than other foundries’