

UMTS PICOCELL FRONT END MODULE

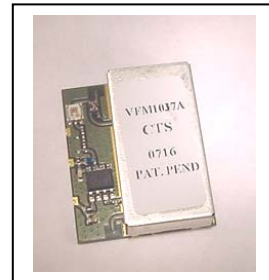
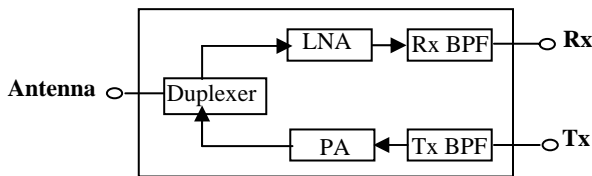
DESCRIPTION

The MODEL VFM1017A is a low power UMTS Node B Local Area front end module (FEM). It is designed to replace all of the RF components that would be typically used in a Node B local area front end. It is RoHS compliant and lead-free. It has a patent pending design.

FEATURES

- PA capable of delivering 7 -10 dBm at the antenna port while meeting TS25.104 R6.
- Distributed filters offering excellent isolation and harmonic suppression.
- LNA with Bypass mode to increase receiver linearity

FEM Block Diagram



Typical specifications:

TRANSMIT

Frequency range 2110 - 2170 MHz
 Power @ antenna port 7 - 10 dBm
 PA supply voltage 5V
 ACLR @ 10 dBm 50 dBc .
 Gain 12.5 dB
 Attenuation (2.25-12.75 GHz) > 30 dB

RECEIVE

Frequency range 1920 - 1980 MHz
 Gain 12 dB
 LNA supply voltage 4V
 Noise figure 4 dB.
 Attenuation (2.17–12.75 GHz) > 30 dB

Receiver sensitivity -120 dB worst case
 Tx to Rx isolation @ antenna port 90 dB typical
 Tx input to Rx output isolation 65 dB typical

Size: 31.0 mm x 25.1 mm x 6.75 mm
 Temp. range: - 30°C to 75° C