

Model VFM1004A

UMTS PICOCELL FRONT END MODULE

DESCRIPTION

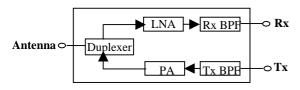
The MODEL VFM1004A is a UMTS Node B Local Area front end module (FEM). It is designed to replace all of the RF components that would be typically used in a Node B local area front end. It is RoHS compliant and lead-free. It has a patent pending design.

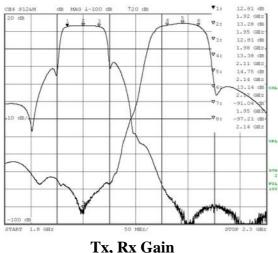
FEATURES

- Scalable PA capable of delivering 24 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 Simplified Block Diagram





23.88 dBm Power **Adjacent Channel** Bandwidth -56.94 dB Lower Spacing -57.01 dB Upper -67.16 dB Lower Spacing Upper -67.51 dB

ACLR @ 2140 MHz

Specifications:

TRANSMIT

2110 - 2170 MHzFrequency range PA supply voltage **8V**

Attenuation (2.25-12.75 GHz) > 30 dB

RECEIVE

Frequency range 1920 – 1980 MHz

LNA supply voltage

Attenuation (2.17-12.75 GHz) > 30 dB

Tx to Rx isolation @ antenna port 90 dB typical Tx input to Rx output isolation 65 dB typical

Size: 30.5 mm x 25 mm x 6.75 mm Temp. range: - 40°C to 85° C

014-0004-0 Rev. A