Model VFM1004A

UMTS PICOCELL FRONT END MODULE

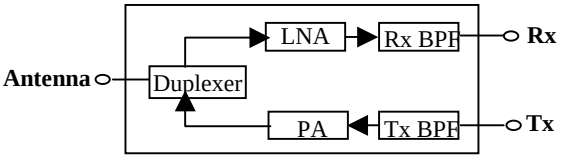
DESCRIPTION

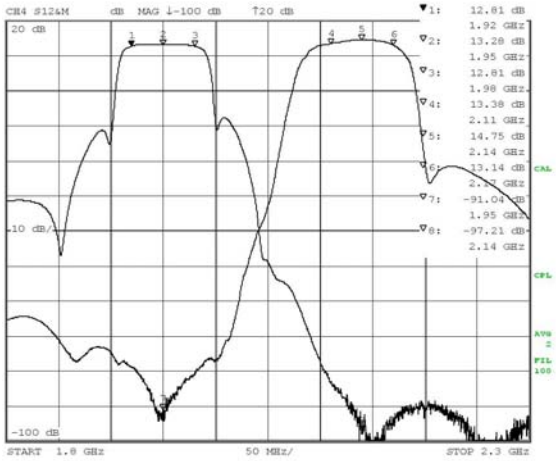
The MODEL VFM1004A is a UMTS Node B Local Area front end module (FEM). It is designed to replace all of the RF components that would be typically used in a Node B local area front end. It is RoHS compliant and lead-free. It has a patent pending design.

FEATURES

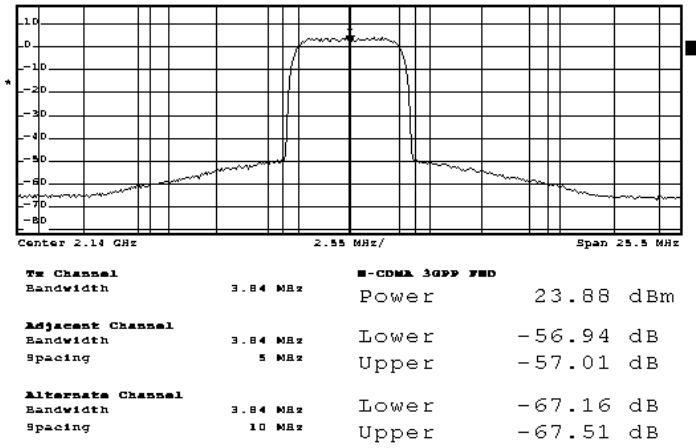
- Scalable PA capable of delivering 24 dBm at the antenna port while meeting TS25.104 R6.
-Distributed filters offering excellent isolation and harmonic suppression.
-LNA with Bypass mode to increase receiver linearity

FEM Simplified Block Diagram





Tx, Rx Gain



ACLR @ 2140 MHz

Specifications:

TRANSMIT		RECEIVE	
Frequency range	2110 – 2170 MHz	Frequency range	1920 – 1980 MHz
PA supply voltage	8V	LNA supply voltage	5V
Attenuation (2.25–12.75 GHz)	> 30 dB	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

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