Model VFM1019C

UMTS PICOCELL FRONT END MODULE

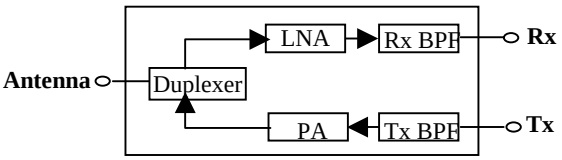
DESCRIPTION

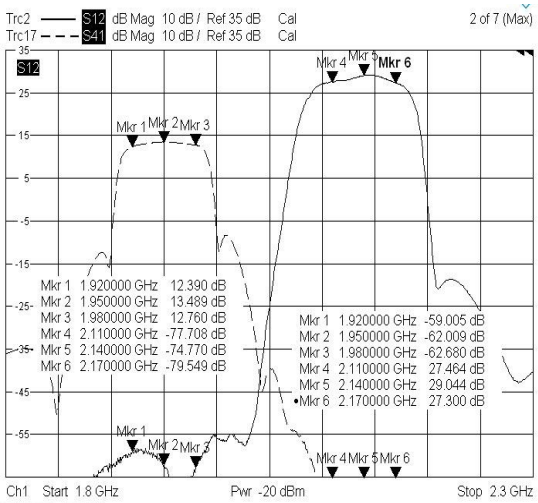
The MODEL VFM1019C is a UMTS Node B Local Area front end module (FEM). It is designed to replace all of the RF components that would be typically used in a Node B local area front end. It will accept a 0 dBm signal at the Tx port. It is RoHS compliant and lead-free. It has a patent pending design.

FEATURES

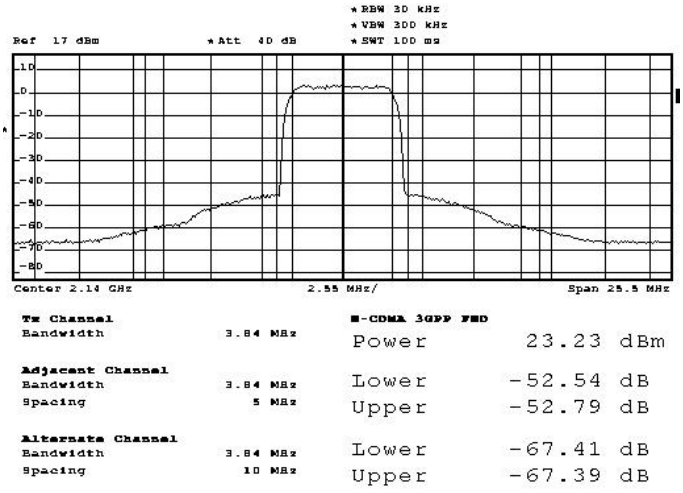
- Scalable PA capable of delivering 24 dBm at the antenna port while meeting TS25.104 R6.
- Distributed filters offering excellent isolation and harmonic suppression.
- Pre-driver included
- LNA with Bypass mode to increase receiver linearity

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	4V
Attenuation (2.25–12.75 GHz)	> 30 dB	Attenuation (2.17–12.75 GHz)	> 30 dB

Tx to Rx isolation @ antenna port 85 dB typical
Tx input to Rx output isolation 65 dB typical
Size: 31.0 x 25.1 x 6.75 mm

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