Specifications

Version 01.00

August 2005

Additional RF Generator R&S®CMU-B96

Specifications

ROHDE&SCHWARZ

Additional RF Generator R&S CMU-B96

Path 1 for GSM

Modulation		GMSK, B x T = 0.3 8PSK

Frequency range		
	GSM400 band	460 MHz to 468 MHz 488 MHz to 496 MHz
	GSM850 band	869 MHz to 894 MHz
	GSM900 band	921 MHz to 960 MHz
	GSM1800 band	1805 MHz to 1880 MHz
	GSM1900 band	1930 MHz to 1990 MHz

Frequency resolution		2.5 kHz

Frequency uncertainty		same as time base, see base unit specifications

Inherent phase error	GMSK	<5°, rms

Output level range	GMSK	
RF 1	without R&S CMU-U99 with R&S CMU-U99	–115 dBm to –72 dBm –103 dBm to –60 dBm
RF 2		–103 dBm to –60 dBm

Output level range	8PSK	
RF 1	without R&S CMU-U99 with R&S CMU-U99	–115 dBm to –76 dBm –103 dBm to –64 dBm
RF 2		–103 dBm to –64 dBm

Output level range	GMSK overrange mode	
RF 1	without R&S CMU-U99 with R&S CMU-U99	–110 dBm to –28 dBm –90 dBm to –14 dBm
RF 2		–90 dBm to –14 dBm
RF 3 OUT		–70 dBm to +9 dBm

Output level range	8PSK overrange mode	
RF 1	without R&S CMU-U99 with R&S CMU-U99	–110 dBm to –32 dBm –90 dBm to –18 dBm
RF 2		–90 dBm to –18 dBm
RF 3 OUT		–70 dBm to +5 dBm

Output level resolution		1 dB

Influence on RF interface

Reduced input level range	if R&S CMU-B96 is installed	
RF 1	continuous input power	max. 2 W

RF level uncertainty	the usage of R&S CMU-B96 in overrange mode may influence all RF signal levels and quality	

Path 2 for WCDMA

Standard		3GPP FDD

Frequency range	non-signaling mode	
		869 MHz to 894 MHz 1805 MHz to 1880 MHz 1930 MHz to 1990 MHz 2110 MHz to 2170 MHz

Frequency range	WCDMA signaling mode	
	band 1 band 2 band 3 band 4 band 5 band 6	2110 MHz to 2170 MHz 1930 MHz to 1990 MHz 1805 MHz to 1880 MHz 2110 MHz to 2170 MHz 869 MHz to 894 MHz 875 MHz to 885 MHz

Frequency resolution		2.5 kHz

Frequency uncertainty		same as time base, see base unit specifications

Error vector magnitude (EVM)	global EVM for DL RMC in line with 3GPP TS 34.121 C3.1 to C3.4 with DPCH/CPICH = 0 dB	<8 %, rms

Output level range		
RF 1	without R&S CMU-U99 with R&S CMU-U99	–115 dBm to –82 dBm –103 dBm to –70 dBm
RF 2		–103 dBm to –70 dBm

Output level resolution	RF1 and RF2	0.1 dB

Output level range	overrange mode	
RF 1	without R&S CMU-U99 with R&S CMU-U99	–110 dBm to –38 dBm –90 dBm to –24 dBm
RF 2		–90 dBm to –24 dBm
RF 3 OUT		–70 dBm to –1 dBm

Output level resolution	for overrange mode	1 dB

Influence on RF interface

Reduced input level range	if R&S CMU-B96 is installed	
RF 1	continuous input power	max. 2 W

RF level uncertainty	the usage of R&S CMU-B96 in overrange mode may influence all RF signal levels and quality	

Ordering information

Designation	Type	Order No.
Additional RF Generator 2 Channel	R&S CMU-B96	1159.1600.02
Additional RF Generator 2 Channel	R&S CMU-U96	1159.3603.02

Certified Quality System
ISO 9001
DQS REG. NO 1954 QM

Certified Environmental System
ISO 14001
DQS REG. NO 1954 UM

For product brochure, see PD 0758.0039.12
and www.rohde-schwarz.com
(search term: CMU)

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