

W20-GD-Vodacom

Items		Uplink	Downlink
Frequency Range	GSM	890.1 ~ 901.1 MHz	935.1 ~ 946.1 MHz
	DCS	1760.3 ~ 1772.3 MHz	1855.3 ~ 1867.3 MHz
Bandwidth	GSM	11 MHz	11 MHz
	DCS	12 MHz	12 MHz
Output Power	GSM	15±2 dBm	20±2 dBm
	DCS	15±2 dBm	20±2 dBm
Gain	GSM	65±2 dB	70±2 dB
	DCS	65±2 dB	70±2 dB
ATT(GSM) step of 1 dB	1~10 dB	Δ ≤1 dB	Δ ≤1 dB
	10~20 dB	Δ ≤1 dB	Δ ≤1 dB
	20~25 dB	Δ ≤1.5 dB	Δ ≤1.5 dB
ATT(DCS) step of 1 dB	1~10 dB	Δ ≤1 dB	Δ ≤1 dB
	10~20 dB	Δ ≤1 dB	Δ ≤1 dB
	20~25 dB	Δ ≤1.5 dB	Δ ≤1.5 dB
ALC Active 10 dB		Δ ≤2 dB	Δ ≤2 dB
Out of Band Gain	GSM	± 600 KHz ≤ +40dB	± 600 KHz ≤ +40dB
		± 1 MHz ≤ +35dB	± 1 MHz ≤ +35dB
		± 5 MHz ≤ +25dB	± 5 MHz ≤ +25dB
	DCS	± 600 KHz ≤ +40dB	± 600 KHz ≤ +40dB
		± 1 MHz ≤ +35dB	± 1 MHz ≤ +35dB
		± 5 MHz ≤ +25dB	± 5 MHz ≤ +25dB
Ripple in Band	GSM	≤3 dB	≤3 dB
	DCS	≤3 dB	≤3 dB
Intermodulation Products	GSM	≤-36 dBm	≤-36 dBm
	DCS	≤-30 dBm	≤-30 dBm
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm
Noise Figure @ max. gain	GSM	≤6 dB	≤6 dB
	DCS	≤6 dB	≤6 dB
VSWR	GSM	≤2	≤2
	DCS	≤2	≤2
Time delay	GSM	≤5 μs	≤5 μs
	DCS	≤5 μs	≤5 μs
LED Indication	Power On	Green	
	Power Off	No Light	
Alarm	ALC not Active	---	Green



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Items		Uplink	Downlink
(GSM)	ALC Active 1~5dB	---	Orange
	ALC Active >20dB	---	Red
Alarm (DCS)	ALC not Active	---	Green
	ALC Active 1~5dB	---	Orange
	ALC Active >20dB	---	Red
Power Supply		DC: 12 V / 5 A	
RF Connector		N-Female	
Environment Conditions		IP40	
Humidity		< 90%	
Operating Temperature		-10°C ~ +55°C	