

# W20-DW-MTN

Items		Uplink	Downlink
Frequency Range	DCS	1722.7 ~ 1734.7 MHz	1817.7 ~ 1829.7MHz
	WCDMA	1949.9 ~ 1959.9 MHz	2139.9 ~ 2149.9 MHz
Output Power	DCS	15±2 dBm	20±2 dBm
	WCDMA	15±2 dBm	20±2 dBm
Gain	DCS	65±2 dB	70±2 dB
	WCDMA	65±2 dB	70±2 dB
Ripple	DCS	≤4 dB	≤4 dB
	WCDMA	≤2 dB/3.84MHz	≤2 dB/3.84MHz
VSWR	DCS	≤2	≤2
	WCDMA	≤2	≤2
Max. Input Power Without Damage		-10 dBm	-10 dBm
Intermodulation Products	DCS	≤-30 dBm	≤-30 dBm
	WCDMA	≤-30 dBm	≤-30 dBm
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm
Out of Band Gain (DCS)	±600 KHz	≤40 dB	≤40 dB
	±1 MHz	≤35 dB	≤35 dB
	±5 MHz	≤25 dB	≤25 dB
Out of Band Gain (WCDMA)	2.7≤f<3.5MHz	≤ 60 dB	≤ 60 dB
	3.5≤f<7.5MHz	≤ 45 dB	≤ 45 dB
	7.5≤f<12.5MHz	≤ 45 dB	≤ 45 dB
	12.5 MHz≤f	≤ 35 dB	≤ 35 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
ATT(WCDMA) 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 10dB	DCS	Δ   ≤2 dB	Δ   ≤2 dB
	WCDMA	Δ   ≤2 dB	Δ   ≤2 dB
LED Indication	Power ON	Green	
	Power OFF	No Light	
ALC Alarm (DCS)	Not Active	—	Green
	Active 5~10dB	—	Orange
	Active 15~20dB	—	Red
ALC Alarm (WCDMA)	Not Active	—	Green
	Active 5~10dB	—	Orange
	Active 15~20dB	—	Red
Noise Figure@	DCS	≤8 dB	≤8 dB

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Items		Uplink	Downlink
max. gain	WCDMA	≤8 dB	≤8 dB
Time Delay	DCS	≤5 μs	≤5 μs
	WCDMA	≤5 μs	≤5 μs
Power Supply		DC +12 V	
Power Consumption		< 45 W	
RF Connector		N-Female	
Operating Temperature		-10°C ~ +55°C	