

W23D-B20 Band Selective Repeater With Bandwidth Adjustable



Items		Uplink	Downlink
Frequency Range		832 ~ 862 MHz	791 ~ 821 MHz
Bandwidth(Frequency can be set by software)		0.1~20 MHz(in steps of 100 KHz)	0.1~20 MHz(in steps of 100 KHz)
Working Frequency		842 ~ 852 MHz	801 ~ 811 MHz
Working Bandwidth		10 MHz	10 MHz
Output Power		15±2 dBm	23±2 dBm
Gain		70±3 dB	75±3 dB
Ripple		Type ≤4 dB @ BW _{Config}	Type ≤4 dB @ BW _{Config}
VSWR		≤2	≤2
ALC Active 10 dB		Δ ≤2 dB	Δ ≤2 dB
Max. Input Power Without Damage		0 dBm	0 dBm
Intermodulation Products		≤-36 dBm	≤-40 dBc
Spurious Emission	9 KHz~1 GHz	≤-36 dBm	≤-36 dBm
	1 GHz~12.75 GHz	≤-30 dBm	≤-30 dBm
Out of Band Gain	0.2 MHz≤f_offset < 1 MHz	≤ 60 dB	≤ 60 dB
	1 MHz≤f_offset < 5 MHz	≤ 45 dB	≤ 45 dB
	5 MHz≤f_offset < 10 MHz	≤ 45 dB	≤ 45 dB
	10 MHz≤f_offset	≤ 35 dB	≤ 35 dB
ATT step of 1 dB	1 ~ 10 dB	Δ ≤1 dB	Δ ≤1 dB
	10 ~ 20 dB	Δ ≤1.5 dB	Δ ≤1.5 dB
	20 ~ 31 dB	Δ ≤2 dB	Δ ≤2 dB
Noise Figure@ max. gain		≤6 dB	≤6 dB
Time Delay		≤9 μs	≤9 μs
Power LED Indication	Power ON	Green	
	Power OFF	No Light	
AGC Alarm	Not Active	—	Green
	Active 5~10 dB	—	Orange

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Items		Uplink	Downlink
	Active ≥ 25 dB	—	Red
Smart LED Indication	Intelligent mode	Green	
	Normal mode	No Light	
Monitoring and control	Local	OLED(No scrolling in menu)	
Local Control		1.UL&DL Gain	
		2. Frequency	
		3.Bandwidth	
Local Monitoring		1.Output Power	
		2.Temperature	
		3.Alarms(Over Output Alarm, Over Temperature Alarm, PLL Alarm))	
Idle off function		Under Maximum gain, Uplink continuously 5 \pm 1 minutes input signal < -70dBm(Free Threshold Setting Value), Uplink PA OFF,once the input signal \geq -65dBm, Uplink PA ON immediately	
CE RED standard		EN62368-1: 2014+A11: 2017	
		EN50385: 2002	
		ETSI EN301489-1 V2.1.1	
		ETSI EN303489-50 V2.1.1	
		ETSI EN303609 V12.5.1	
		ETSI EN301908-1 V11.1.1	
		ETSI EN301908-11 V11.1.2	
		ETSI EN301908-1 V11.1.1	
ETSI EN301908-15 V11.1.2			
Power Supply		DC: 12V	
Power Consumption		< 25 W	
RF Connector		N-Female	
Environment Conditions		IP40	
Humidity		< 90%	
Operating Temperature		-10 $^{\circ}$ C ~ +50 $^{\circ}$ C	