



LTE1.8G+LTE2.1G Digital Dual frequency 17dBm PICO Repeater

MODEL		DTN1821-VF6-60-23EVM1	
Items		Specifications	
		Downlink	Uplink
Frequency Range (MHz)	LTE1800	1805-1880	1710-1785
	LTE2100	2110-2170	1920-1980
Operating Bandwidth (MHz) Band tunable	LTE1800	5/10/15/20(EBW:4.5/9/13.5/18)	
	LTE2100	5/10/15/20(EBW:4.5/9/13.5/18)	
Sub-band number		3	
Max. Output Power (dBm) Center Frequency		17±2	10±2
Max. Gain (dB) Center Frequency		65±3	60±3
Noise Figure (dB) (Max. Gain)		≤7.0	/
ATT Adjustable Range/ Step (dB)		0 ~ 30/1	
Ripple In Band (dB)at 25°C		≤±5@EBW	
ALC Range (dB)		0 ~ 20	
ALC Accuracy (dB)		≤ ±2.0	
AGC Range (dB)		≤30	
Total Processing Delay (us)		≤5.0	
Input VSWR (Power up, Min Gain, Pin=-30dBm)		≤2.0	
Frequency Error (ppm)		≤0.05	
EVM (Error vector margin)(%)RMS		≤8.0	
Out of Band Emission @offset ±2.5MHz	9KHz~150KHz	≤ -36 @ 1KHz	
	150KHz~30MHz	≤ -36 @ 10KHz	
	30MHz~1GHz	≤ -36 @ 100KHz	
	1GHz~12.75GHz	≤ -30 @ 1MHz	
Out of Band Gain at 25°C (dB)	0.2MHz ≤ f_offset < 1MHz	≤ 60	
	1MHz ≤ f_offset < 10MHz	≤ 45	
	10.0MHz ≤ f_offset	≤ 35	
Impedance (Ω)		50	



Tone Spread
Solutions for Wireless Signal

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Power Supply		AC110/220V, 45-60Hz
Radio Connector	BTS	N(f)*1
	MS	N(f)*1
Housing class		IP30
Weight (Kg)		≤5
Dimension (mm)		310*241*69(Note1)
Operating Temperature (°C)		0 ~ +45
Power Consumption(W)		≤60
Humidity (%)		≤85
Control Function	Sub band on/off	Each sub-band/Channel can be switched on/off individually by software
	Sub band ATT	Each sub-band/Channel can be ATT individually by software (≥15dB)
	Status monitoring (Alarm & signal level)	in/output power (UL/DL) , temperature, Switch ,Frequency, Etc.
	LED Indicator	Power Indicator ,Alarm Indicator, DL output power Indicator
	Local control	USB2.0
	Remote control	TCP/IP(RJ45)

NNote1: According to the production and the actual needs, the shape structure may change, in order to final production.

Outline Dimension:

