

KT2T/D/S/R02D, Repeater



DESCRIPTION

The KT2T/D/S/R02D wireless repeater can amplify one/two/three bands or multiple sub-bands signals at the same, Time by sharing one antenna feeder system. It is a good solution for multi-operator coverage projects because the infrastructure costs will be greatly reduced.

In the downlink path, the repeater will pick up the signal from the exiting transmitter via the donor antenna, Amplifying and re-transmitting it into the desired coverage area via the service antenna. In the uplink path, the repeater will receive signals from cell phones in the covered area and re-transmit them back to the base station.

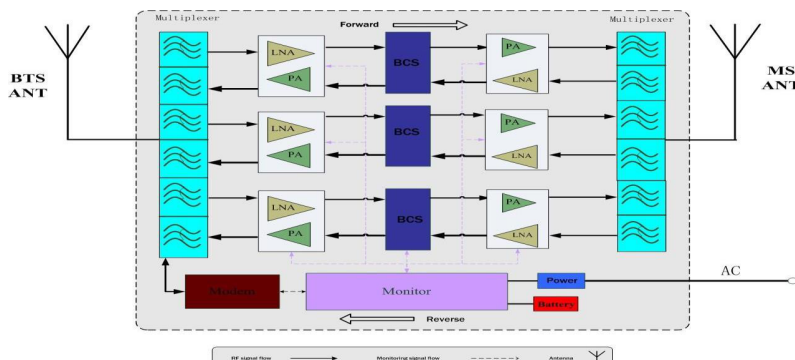
TECHNICAL SPECIFICATIONS

Item		Specifications	
		Uplink	Downlink
Frequency Range (MHz)	GSM/UMTS900 Band	880 ~ 915	925 ~ 960
	GSM/LTE1800 Band	1710 ~ 1785	1805 ~ 1880
Bandwidth (MHz)	GSM/UMTS900 Band	0.2-30	
	GSM/LTE1800 Band	0.2-30	
Sub band number	GSM/UMTS900 Band	3	
	GSM/LTE1800 Band	3	
Max. Total Output Power(dBm)Center Frequency		17±2 (900MHz)	17±2 (900MHz)
		17±2 (1800MHz)	20±2 (1800MHz)
Max. Gain (dB) Center Frequency at 25°C		60±3	70±3
ATT Adjustable Range (dB)/(Step) 1dB		0~30 @ 1 dB step	
ATT Adjustable Error (dB)	0-20dB	≤ ±1.0	≤ ±1.0
	20-30dB	≤ ±1.5	≤ ±1.5
ALC (dB)		0~25	
Noise Figure (dB) (Max. Gain)		≤ 8.0	
Input VSWR(Power up, Min Gain, Pin=-30dBm)		≤ 2.0	
Ripple In Band (P-P) (dB) At +25°C	GSM/UMTS900 Band	≤5.0@EBW	
	GSM/UMTS1800 Band	≤7.0@EBW	



Out of Band Gain (dB) At +25°C	$2.7 \leq f_{\text{offset}} < 3.5\text{MHz}$	$\leq 60\text{dB}$	
	$3.5 \leq f_{\text{offset}} < 7.5\text{MHz}$	$\leq 45\text{dB}$	
	$7.5 \leq f_{\text{offset}} < 12.5\text{MHz}$	$\leq 45\text{dB}$	
	$12.5\text{MHz} \leq f_{\text{offset}}$	$\leq 35\text{dB}$	
Time Delay (us)		≤ 5.0	
ACRR(dB)	$\pm 5\text{MHz}$	≤ -33	
	$\pm 10\text{MHz}$	≤ -33	
EVM(%)		≤ 12.5	≤ 12.5
PCDE(dB)		≤ -35	≤ -35

Item		Specifications	
		Uplink	Downlink
Input intermodulation		Fully satisfied with 3GPP TS 25.143	
Output intermodulation		Fully satisfied with 3GPP TS 25.143	
3rd Inter-modulation (dBc)(Max Gain)		≤ -45 (dual-tone interval 600kHz)	
RF Connector		N(f) * 2	
Input / output Impedance (Ω)		50	
Power Supply		DC-12V or AC176 ~ 264V/50Hz	
Temperature Range (°C)		-25 ~ +50	
Humidity Range (%)		5 ~ 90	
Weight (Kg)		6	
Dimension (mm)		318*241*80	
Power Supply	Local Monitor	RJ45	
	Remote Monitor	SMS(GSM/GPRS Modem)	



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