

MODEL NAME	PCS Pico Repeater --- RCTPX2365
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## 1、Introduction

- Pico Repeater is applied specifically in small area indoor DAS system.
- Provide quick coverage solution for small signal weak & block zones,reduce drop/off calls.
- Compact size.low consumption,easy installation,great cover.
- Eliminate the signal dead spot, reject the interference, provide the stable signal communication for cell phone users.
- High liner design, low interference to BTS
- ALC function design, It provide the high reliability and stability.
- provide power supply indication and output power indication

## 2. Application

Basements	Parking lots
Cars	High-speed trains
Border	Village
Elevators	Vessels
High-buildings	Tunnels
Countryside	Mines
Clubs	Underground facilities
Residential house	Villas

## 3. Electrical Specification

### 3.1 Uplink

item	Electric SPEC		unit	Note
Frequency range	1850-1910MHz	/	/	
Operating Bandwidth	1850-1910MHz	0-60M	MHz	客户定制
Maximum Output power		0~23	dBm	
ALC		$ \Delta  \leq 2$	dB	

Maximum Gain		$\geq 60$	dB	
Gain Adjust Scope	1dB ~ 10dB	$ \Delta  \leq 1$	dB	
	10dB ~ 20dB	$ \Delta  \leq 1$	dB	
	20dB ~ 25dB	$ \Delta  \leq 1.5$	dB	
IM3		$\leq -30/30\text{kHz}$	dBc	
Ripple in band		$\leq 6$	dB	
			dB	
带外抑制	Fo+/-400kHz	$\leq 50$	dB	
	Fo+/-600kHz	$\leq 40$	dB	
	Fo+/-1MHz	$\leq 35$	dB	
	Fo+/-5MHz	$\leq 25$	dB	
Spurious Emission	9kHz ~ 150kHz	$\leq -36/1\text{kHz}$	dBm	
	150kHz ~ 30MHz	$\leq -36/10\text{kHz}$		
	30MHz ~ 1GHz	$\leq -36/100\text{kHz}$		
	1GHz ~ 12.75GHz	$\leq -25/1\text{MHz}$		
VSWR		$\leq 2$	/	
Noise Figure at Max. System Gain		$\leq 8$	dB	
System Group Delay		$\leq 5.5$	$\mu\text{s}$	
Frequency Stability		$\leq 0.05\text{ppm}$	Hz	

### 3.2 Downlink

item	Electric SPEC		unit	Note
Frequency range	1930-1990MHz	/	/	
Operating Bandwidth	1930-1990MHz	0-60M	MHz	客户订制
Maximum Output power		0~23	dBm	
ALC		$ \Delta  \leq 2$	dB	
Maximum Gain		$\leq 65$	dB	

Gain Adjust Scope	1dB ~ 10dB	$ \Delta  \leq 1$	dB	
	10dB ~ 20dB	$ \Delta  \leq 1$	dB	
	20dB ~ 25dB	$ \Delta  \leq 1.5$	dB	
IM3		$\leq -30/30\text{kHz}$	dBc	
Ripple in band		$\leq 7$	dB	
帶外抑制	Fo+ /-400kHz	$\leq 50$	dB	
	Fo+ /-600kHz	$\leq 40$		
	Fo+ /-1MHz	$\leq 35$		
	Fo+ /-5MHz	$\leq 25$		
Spurious Emission	9kHz ~ 150kHz	$\leq -36/1\text{kHz}$	dBm	
	150kHz ~ 30MHz	$\leq -36/10\text{kHz}$		
	30MHz ~ 1GHz	$\leq -36/100\text{kHz}$		
	1GHz ~ 12.75GHz	$\leq -25/1\text{MHz}$		
VSWR		$\leq 2$	/	
Noise Figure at Max. System Gain		$\leq 8$	dB	
System Group Delay		$\leq 5$	$\mu\text{s}$	
Frequency Stability		$\leq 0.05\text{ppm}$	Hz	

### 3.3 Mechanical Characteristic

Mechanical Characteristic	
Connectors	N-female
Power Supply	DC6V 3A, AC 110~240V
Operating Temperature	-10°C~+50°C
Humidity	90%
Power Consumption	$\leq 10\text{W max}$
Dimension(D*W*H)	220*125*65( mm)
weight	$\leq 3\text{kg}$

Note : 1. Typical specifications at room temperature.

2. VSWR Test Condition is Uplink and downlink ATT setting 25dB

#### 4. LED FUNCTION INDICATION

LED	Fuction	Working mode	Judgement of Failure
Uplink Light Red	Warning for Autoexcitation,improper AGC over limited.	The light flicker for one time	Improper warning
		The light continously flicker for two times	Autoexcitation Warning
		The light continously flicker for three times.	AGC over limit warning
Downlink Light Red	Warning for Autoexcitation,improper, AGC over limited and invalidation of PA.	The light flicker discontinuity for one time	Improper warning
		The light continously flicker for two times	Autoexcitation Warning
		The light continously flicker for three times.	AGC over limit warning
		The light continously flicker for four times.	Warning of invalidation of PA
Green Light	Indication light of power supply	If LED light is on, which means it's working normal.	If LED light is off which means it's not working normal

#### 5. Machine Dimensions

