Converter Series

The UC，DC up&down converter series which produced by Probecom company are widely applied in many fields, such as satellite communication, radar, navigation, monitoring and control, broadcast television and other fields. The products features reliable performance, flexible configuration .

Features:

.High reliability, high stability, high quality

.Built-in high stability reference source,internal and external reference adaptive.

.Low phase noise

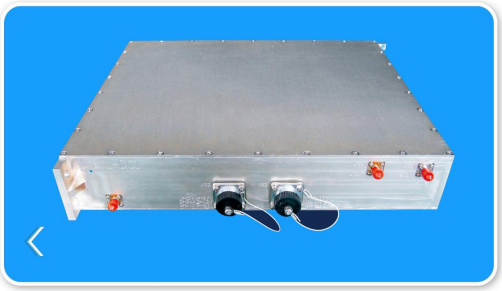
.Low stray

.Local control / remote control are switchable

.Low VSWR

.Wide operating temperature range

Options:



. 1: 1 dual channel backup or online at the same time

.Multi-species, multi-standard can be made freely

.Indoor and outdoor optional

.Frequency resolution is optional

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Converter Series

Common Model

Up-link Converter Series

Type	Model	Input Frequency (MHz)	Output Frequency (MHz)	X:Option Description
Up-link Converter Series	LUC20000X	70/140 optional	950~1450	B-Built-in dual channel online at the same time
	SUC2000X	70/140 optional	2200~2300	C-Built-in dual-channel redundant backup
	CUC2000X	70/140 optional	5850~6450	D-Non-standard frequency range output
	XUC2000X	720	8000~9000	E-Frequency step decimal
	KuUC2000X	70/140 optional	14000~145000	F-The signal output interface is provided with a 10MHz reference signal and a current supply output
	KaUC2008X	7200	25000~27500	G-Compatible CPCI architecture
	QUC2008X	1200	42000~45000	H-The working temperature of -35℃ ~+55℃

Down-link Converter Series

Type	Model	Input Frequency (MHz)	Output Frequency (MHz)	X:Option Description
Down-link Converter Series	LDC20000X	950~1450	70/140 optional	B-Built-in dual channel online at the same time
	SDC2000X	2200~2300	70/140 optional	C-Built-in dual-channel redundant backup
	CDC2000X	5850~6450	70/140 optional	D-Non-standard frequency range output
	XDC2000X	8000~9000	720	E-Frequency step decimal
	KuDC2000X	12250~12750	70/140 optional	F-The signal output interface is provided with a 10MHz reference signal and a current supply output
	KaDC2008X	22000~24000	7200	G-Compatible CPCI architecture

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Technical Specification

Electrical Specification	
Conversion gain	35dB±2.5dB(up-link converter)/45dB±（Down-link converter）
Gain adjustment	0~30dB,1dB/0.5dB per day
Gain stability	±0.5dB/per day
Gain fluctuation	±0.5dB/(±18MHz)
Step frequency	1MHz/100KHz/10KHz optional
Frequency Spectrum	Positive phase/Inverted phase optional
Phase noise	-70dBc/Hz@100Hz
	-85dBc/Hz@1KHz
	-90dBc/Hz@10KHz
	-95dBc/Hz@100KHz
Maximum output power	+dBm@P1dB(+12dBm@P1dB optional)
Intermodulation distortion	≤-45dBc(Pout= ΣP-7 dB)
Non-carrier spurs	-75dBm
Carrier spurious	-60dBc@0dB output
Image rejection	≥65dBc
Group delay characteristic	Linear group delay 0.03ns/MHz
	Parabolic group delay 0.01ns/MHz2
	Group delay fluctuation
Temperature Specification	
Working temperature	-20℃~+40℃
Storage temperature	-55℃~+65℃
Temperature range	0~95%

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