

UDCU (Up Down Converter Unit) | RF Components and Subsystems Specification

Tx

UDCU PARAMETERS		UDCU SPECIFICATION
Frequency Range		1860.625 ~ 1869.375 MHz
Output Power		18.5 dBm / 8.75 MHz
IF to RF Conversion Gain		33.5 +- 12dB
Gain Flatness		BW 10MHz 0.5 dB Max.
Return Lose		18dB Min
Tx Sample		-35 dBc +- 1dB
Spectrum Mark	@ 885 KHz	-45 dBc / 30KHz
	@ 1.98 MHz	-55 dBc / 30KHz
	@ 2.25 MHz	-46 dBc / 1MHz

Rx

UDCU PARAMETERS		UDCU SPECIFICATION
Frequency Range		1770.625 ~ 1779.375 MHz
Dynamic Range		-35 ~ -90.5 dBm
Maximum Receive Signal without Damage		+10 dBm
Input Port Reflection		18 dB min.
RF to IF Conversion Gain		7 +- 2dB
Noise Figure		20.0dB Max
Pass-band Ripple		1.0dB Max
Gain Control Range		15.5dB (Control Step: 0.5dB)
Out-of-band	@ Fc +- 5.5 MHz	-3 dBc

Rejection	@ Fc +- 7.5 MHz	-40 dBc
IF Harmonics Rejection		-956 dBc
P1dB	Rx_IN → Rx_IF	0 dBm Min.
IIP3	Rx_IN → Rx_IF	10 dBm Min.
Operating Temperature		-10 ~ +70°C
Connectors		SMA R/A (F), SMA (F)
Size (mm)		260.0 X 150.0 X 22.0