

## Transceiver NUDC2-18\_1.3-2.3

Parameter	Min	Max	Units	Notes
RF Frequency Range	2	18	GHz	
IF Out/In Frequency	1.3	2.3	GHz	
Tuning Step		100	MHz	Typical
DC Power (Input)		40	Watts	Typical
Max RF Input Power		20	dBm	
RF Out to RF In Isolation	80		dB	
Tuning Speed		< 20	uS	

### Downconverter- Rx

IF Flatness		+/-2	dB	
Noise Figure		6	dB	0 dB attenuation
Input P1dB	-15		dBm	Nom. Gain<=16, RF attenuator -27dB
Attenuation Range	-55	0	dB	Separate RF&IF Attn Control
Attenuation step size		1	dB	Nom.
RX Gain		16	dB	Nom. @ -27dB Attn
Mixing spurious		-50	dBc	Nom. Gain<=16, RF attenuator -27dB
Image Rejection	60		dBc	Relative to gain @ Fc
VSWR		2	:1	All Ports
LO-RF Leakage		-80	dBm	

### Upconverter- Tx

RF Flatness		±2.5	dB	@ 25°C
Gain control	50		dB	Separate RF&IF Attn Control
Attenuation step size		1	dB	Nom.
Mixing Spurs		50	dBc	Nom. within ±0.6GHz of output Tone
RF Harmonics		-25	dBc	
Gain		30	dB	At 0dB Atten. Nom. (Trade w/IP1dB)
IP1dB	-18		dBm	At 0dB Atten. Goal -10dBm
Noise Figure		15	dB	0 Attenuation
VSWR		2	:1	All Ports
LO-RF Leakage		-60	dBm	

### Environmental

Temp Range (Operating)	-40	85	°C	
External Reference Input		100	MHz	Nominal
Reference Input	-3	3	dBm	Sinewave
Size				3U, 1" Pitch, Primary Side Retainer
Cooling				Conduction
Command Connector				VPX backplane. P2
DC Power Conector				VPX backplane P0
Digital control signals				RS-485/ LVSD Differential