

SkyXpress Corp

SX-10KUE 12.8/13.05 DC



Output Frequency Range	13.75 to 14.50 GHz
Input Frequency Range	950 to 1700 MHz
Local Oscillator	12.8/13.05 GHz (switch-able)
M&C	optional
Phase Noise	< -60 dBc/Hz at 100 Hz < -70 dBc/Hz at 1 kHz < -80 dBc/Hz at 10 kHz < -90 dBc/Hz > 100 kHz
Input level range without damage	+ 5dBm max
Output Power @ P1dB	40 dBm
Gain Flatness (40 MHz BW)	± 0.6 dB max
Gain Variation Over Temperature	± 2 dB max (digital compensation)
Linear gain	65 dB nominal
Spurious @ P1dB	-55dBc max
IMD (With 2 carriers @6dB backoff 1dB Comp)	-30dBc
Input Return Loss	> -15 dB
IF Input Interface	50 ohm N-type / 75 ohm – F type field replaceable
RF Output Interface	WR75
External Reference	10 MHz sine wave
Ref Phase Noise minimum requirement	@ 10 Hz -120dBc/Hz @ 10KHz -150dBc/Hz
Ref Stability	± 1x 10E-7 (Minimum requirement)
Ref Input Level	-5 to +5 dBm
DC Voltage (IFL)	22 - 60V
Power consumption	80W
Operating Temperature	-30 °C to 50 °C
Relative Humidity	up to 98%
Dimensions:	120 x 120(154) x 100 mm Weight: 1.8kg

LED Alarms (to LEDs installed)

LED1 indicator YELLOW	LO mode 13050
LED1 indicator YELLOW Blinking	LO mode 12800
LED2 indicator GREEN	ALL OK
LED2 indicator GREEN Blinking	Output Muted
LED3 indicator RED	SUMMARY FAULT, No PLL Lock to ext. REF 10MHz, SSPA OUT DISABLED
No LED illumination	No power supply voltage

Connector Pin Assignment

Connector Name	Type	Pin #	Signal	Parameter
J1 "IF IN"	N/F -type female field replace-able	N/A	IF Input 10 MHz Ref. IN DC power	5 dBm, max -5 + 5 dBm 20-60V
J2 "RF OUT"	WR-75	N/A	RF Output	40 dBm