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Model Number: C1601S2ULA-22226-XXXX-E

RF Parameters						
Capacity		16–way				
Frequency Range		850-2150 MHz (L-band)				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-type
Gain Typical, mean across band		0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB
Gain Flatness	850-2150MHz	±1.5 dB	±1.5 dB	±1.5 dB	±2.0 dB	±2.0 dB
	Any 36MHz	±0.5 dB	±0.5 dB	±0.5 dB	±0.75 dB	±0.75 dB
Input Return	Typical	15 dB	15 dB	15 dB	12 dB	12 dB
Loss	Minimum	9 dB	9 dB	9 dB	8 dB	8 dB
Output Return Loss	Typical	15 dB	15 dB	15 dB	12 dB	12 dB
	Minimum	9 dB	9 dB	9 dB	8 dB	8 dB
Isolation		23 dB maximum between any 2 input ports				
1dB Compression	Typical	8 dBm output power				
	Minimum	5 dBm output power				
Noise Figure		23 dB typical				
Amplifier Redundancy		1-to-1 Redundant Cold redundancy & current sensing				
Input RF Power		+ 20 dBm Absolute maximum				

Technical specifications and operating parameters

TOWINZ Source Parameters				
10MHz Ref Source	U-Link on rear panel to select internal/external. The 10 MHz reference is injected onto the common L-band Port	Two 50 ohm BNC's on rear panel for 10 MHz external IN and internal OUT, with a U-Link supplied. There is no 10 MHz injection if the U-Link is removed and the port is terminated (i.e. no external source supplied.)		
Internal Reference	10 MHz Sine Wave Ovenised Crystal Oscillator			
10MHz Output Level	+10 dBm ± 2 dB			
Frequency Stability over temperature	±1 x 10-8 0 to +55 °C			
Reference Source Ageing	± 5 x 10-8 / year ± 5 x 10-10 / day			
Reference Source <-85 dBc/Hz @ 1 Hz Phase Noise <- 115 dBc/Hz @ 10 Hz <- 140 dBc/Hz @ 1000 Hz <- 150 dBc/Hz @ 1000 Hz <- 155 dBc/Hz @ 10,000 Hz <- 155 dBc/Hz @ 10,000 Hz		z Iz		
Warm-up time	< 2 minutes At 25 °C to within <± 1 x 10-7			

Environmental				
Operating temperature	0 to 45°C			
Location	Indoor use only			
Storage temperature	-20°C to +75°C			
Humidity	20 to 90% non-condensing			
Altitude	10,000 feet above mean sea level			

	Power	
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	15W	Max. consumption at steady state
PSU	Dual redundant	Diode OR. Not Hotswap

System Control

Front panel LED's for PSU & Amplifier status

Dry contact (D-Type) on rear panel for PSU status

RJ45 Ethernet Port on rear panel for PSU & Amplifier status

Physical		
Dimensions	2U high x 350mm deep x 19" wide	
Weight	8kg	
Colour	White 00-E-55 semi-gloss	

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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Local Monitoring Alarms

Remote Monitoring

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