



X-band Warm LNA

TTI-LNA-X-SKA5

X Band LNA for Radioastronomy & Satellite Communications

TECHNICAL SPECIFICATIONS

ELECTRICAL

Operating frequency range	4.5-15.5 GHz
Input VSWR	< 1.33:1
Output VSWR	< 1.33:1
Noise figure	< 3 dB
Gain	25 dB (Typ)
Gain flatness	< 1dB full band
Gain Compression	$P_{out\ 1dB} \leq 15\text{ dB}$
Impedance	50 Ω
Power Consumption	< 10 mW

MECHANICAL

RF connector type	Field removable female 50 Ω SMA
Bias connector type	Solder pin and ground lug attached to the chassis
Dimensions (L x W x H)	33.2 x 34.6 x 9.9 mm

ENVIRONMENTAL

Operating temperature range	-20°C to 55°C
Storage temperature	-30°C to 60°C
EMC protection	Internal linear DC regulator, reverse voltage protection and DC filter feed-through



TTI-LNA-X-SKA5 is a warm broadband low noise amplifier highly integrated in a compact package.

It could be customised with different gain slopes, and optimised for specific subbands.

Specifically tuned to provided best performance at band 5 of SKA.

