

MODEL No. **NJT5835** series

The Unit (5W Ka-band SSPA with Upconverter, a weatherized housing for outdoor use) upconverts L-band IF signal to Ka-band RF signal (27.652 to 29.071 GHz) and transmits with 5W (+37 dBm) saturation output power.

< **Features** >

- * **RF Frequency:**
 - 27.652 - 28.388 GHz with 26.600 GHz LO
 - 28.172 - 29.071 GHz with 27.200 GHz LO
- * **High Efficiency Output Power**
 - Saturation Output Power: +37 dBm (5W)
 - ACPR: -25 dBc max. with up to +35 dBm output
 - Power Consumption: 88 W max.
- * **Ethernet M&C Function Equipped**
 - Gain Control: 15 dB range, 1 dB step
 - Power Monitor: 12 dB dynamic range
- * **Reliable All-weather Performance**



< **Line-up** >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	M&C	Power Supply
NJT5835L	27.652 to 28.388 GHz	26.600 GHz	1,052 to 1,788 MHz	5 W Saturation (+37 dBm)	Ethernet M&C Equipped	+22 - +56 V DC Power
NJT5835H	28.172 to 29.071 GHz	27.200 GHz	972 to 1,871 MHz			

< **Specifications** >

Item	Specifications
Output Interface	Waveguide, WR28 with Groove
Input Interface	[IF / Ref.] N-type, female connector (50 ohm)
	[Power] 12 pin circular connector
	[M&C] 12 pin circular connector
Saturation Output Power	+37 dBm
ACPR	-25 dBc max. @ up to +35 dBm output
Conversion Linear Gain	58 dB min., 68 dB max.
Requirement for External Reference	[Frequency] 10 MHz (sine-wave)
	[Input Power] -5 to +5 dBm @ Input port
	[Phase Noise] -105 dBc/Hz max. @ 10 Hz, -130 dBc/Hz max. @ 100 Hz, -150 dBc/Hz max. @ 1 kHz, -155 dBc/Hz max. @ 10 kHz
L.O. Phase Noise	-60 dBc/Hz max. @ 100 Hz, -73 dBc/Hz max. @ 1 kHz -83 dBc/Hz max. @ 10 kHz, -93 dBc/Hz max. @ 100 kHz
Input Return Loss	10 dB
Output Return Loss	15 dB
Power Requirement	+22 to +56 V DC Power
Power Consumption	88 W max.
Monitor and Control	[Interface] Ethernet (Option: RS-232C)
	[Function] Temperature / Output Power Monitor (12 dB Dynamic Range) / LO Status / Output Mute (TX ON/OFF) / Gain Control (15 dB Range, 1 dB Step)
Temperature Range (ambient)	Operating: -20 to +50 C
Dimension & Housing	168 mm (L) x 149.6 mm (W) x 90 mm (H) [6.61" (L) x 5.89" (W) x 3.54" (H)] without Interface Connectors
Weight	3.0 kg [6.6 lbs]

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< Outline Drawing >

