

The Unit (5W Ka-band SSPA with Upconverter, a weatherized housing for outdoor use) upconverts L-band IF signal to Ka-band RF signal (29.0 to 30.0 GHz) and covers linearity at 5W (+37 dBm) output and phase noise for potential 16-APSK support with operation temperature of up to 73 °C.

< Features >

- * **Capability of supporting 5W minimum output power at 8PSK modulated carrier**
- * **Filter switch matrix equipped to suppress spurious in order to comply with ETSI requirements**
- * **Reliable All-weather Performance**



< Line-up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	M&C	Power Supply
NJT5830	29.000 to 30.000 GHz	28.050 GHz	950 to 1,950 MHz	5 W Linear (+37 dBm)	RS-422 M&C Equipped	+18 to +51 V DC Power

< Specifications >

Item	Specifications
Output Interface	Waveguide, WR28 with O-ring Groove
Input Interface	[IF / Ref.] Coaxial Connector, N-type female connector (50 ohm) [Power / M&C] PT02E-14-12P (12 pin Circular connector)
Maximum Operational Power (MOP)	+37.0 dBm min. [QPSK or 8PSK with 1Msps, $\alpha=0.2$] +36.0 dBm min. [BPSK with 1Msps, $\alpha=0.2$]
ACPR	-20 dBc max. @ MOP
Conversion Linear Gain	58 dB min., 66 dB max.
Requirement for External Reference	[Frequency] 50 MHz (sine-wave) [Input Power] -7 to +5 dBm @ Input port [Phase Noise] -105 dBc/Hz max. @ 100 Hz, -130 dBc/Hz max. @ 1 kHz,
Integrated Phase Jitter (DSB)	1.5 degree RMS (1kHz – 1MHz)
IF Input VSWR	2 : 1 max.
RF Output VSWR	2 : 1 max.
Power Requirement	+18 to +51 V DC Power
Power Consumption	88 W max. including BUC Fans
Temperature	Operational Temperature: -40 to +73 °C Storage Temperature: -40 to +85 °C
Waterproofing (IP code)	IP65
Dimension & Housing	180 (L) x 100 mm (W) x 50 mm (H) [7.09" (L) x 39.4" (W) x 1.97" (H)] excluding connectors and mounting ears
Weight	1.6 kg [3.5 lbs]
MTBF	100,000 hours min. at +40 °C with fans.

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