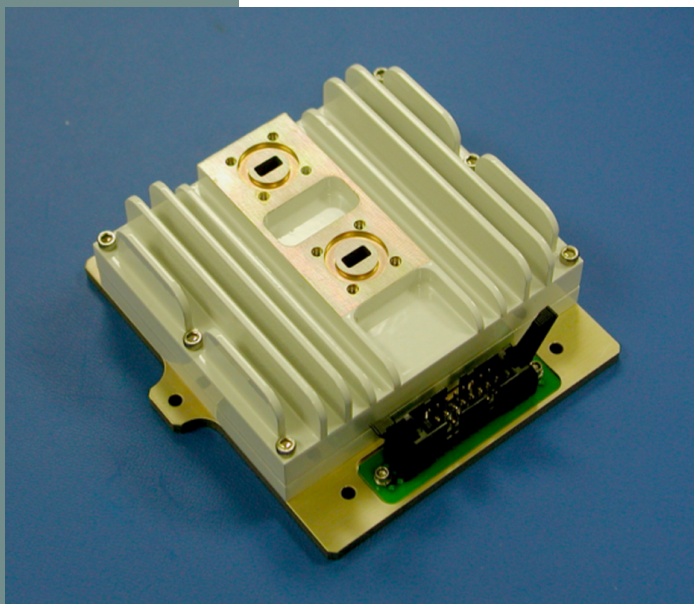




Ka-Band Solid-State Power Amplifier XY30SSA2530



Module Dimensions 3.0 x 3.5 x 0.5 inches
(without heat sink)

Key Features

- MMIC technology
- 33 dB nominal transmitter gain
- 39 dBm nominal transmitter P1dB
- Temperature compensation
- <100 watts power dissipation

Primary Applications

- VSAT
- Point-to-point communication

Parameter	SSPA			Units
	Min	Typ	Max	
Input frequency range	27.5 - 30.0			GHz
Output frequency range	27.5 - 30.0			GHz
Small signal gain	28	33	35	dB
Gain variation over temperature		+/- 0.5	+/- 1	dB
Gain variation over 500 MHz bandwidth		+/- 1	+/- 1.5	dB
Gain adjustment range	14	15		dB
Output 1 dB compression (P1dB)	39	40		dBm
Power monitor range		15		dB
Output third order intercept (IP3)	44	46		dBm
Noise figure		15	20	dB
RF spurious	-50	-55		dBc
Input return loss	-10	-12		dB
Output return loss	-10	-12		dB
Power consumption at P1dB output		90	100	Watts

Samples Available Q102

Measured Data at 40°C

