

Space Quad nanoMPM®

K-/Ku-Band

This K- and Ku-Band Space Quad nanoMPM® is a high-performance RF power amplifier engineered for satellite downlink applications. By combining the strengths of solid-state and traveling wave tube (TWT) vacuum technologies, it delivers exceptional output and reliability.

Designed for the next generation of software-defined satellites, this amplifier enhances on-orbit flexibility using phased-array antennas. It integrates a solid-state linearizer, four wideband high-power mini-TWTs, and a compact nanoMPM® EPC for efficient, high-performance output.

KEY FEATURES

- Space-qualified
- High reliability
- Ultimate Output Power Performance

nanoMPM®



***Space-qualified**

SPECIFICATIONS

Performance	
Frequency Range	17.3 to 21.2 GHz (K-Band) 10.7 to 12.75 GHz (Ku-Band)
Saturated Output Power	60 Watts
Linear Output Power	30 Watts
Nominal Input Power for Linear Operation	-24 dBm
Efficiency @ 15 dB NPR	35%
DC Voltage	100 VDC
Size (Dual TWT Module)	23.4 L x 5.8 W x 3.1 H cm
Size (EPC-L Module)	27.9 L x 5.8 W x 10.2 H cm
Mass (Dual TWT Module)	1.25 kg (including HV cable 2x TWT Dual Modules per Quad)
Mass (EPC-L Module)	2.3 kg

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