CPI GaNLink™ Ku-Band KRFU for Satellite Uplink Communications

Provides 50 watts of linear power in an ARINC-791 compliant package, digital ready, for satellite service within the Ku-band frequency range. Designed for IFEC applications.

Rugged and Easy to Maintain

Built-in fault diagnostic capability via remote monitor and control. User-friendly microprocessor-controlled logic with integrated Ethernet computer interface.

Meets Global Requirements

In addition to ARINC 791 compliance, CPI's SB50UAA is DO-160 certified (by 3rd party STC holder/OEM). Suitable for OEM Linefit and Retrofit application.

Worldwide Support

Backed by over four decades of satellite communications experience, and CPI's worldwide 24-hour customer support network which includes more than 20 regional factory service centers.



CPI model SB50UAA, Ku-band Solid State KRFU, provides up to 50 watts of linear power at the flange

OPTIONS

Integral fan or SPUD (ship provided cooling) configurations



13.75 to 14.50 GHz 950 to 1700 MHz 47 dBm min. (BPSK 0.2, 1.8 Mbps, OccBW ≤ 2.088 MHz, +25°C) 68 dB min. 1 dB max. over any 40 MHz, 2.5 dB max. full band ±1.50 dB -14 dB max.
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1 dB max. over any 40 MHz, 2.5 dB max. full band ±1.50 dB
±1.50 dB
-14 dB max.
-15 dB max.
-32 dBc/Hz at 10 Hz -62 dBc/Hz at 100 Hz -72 dBc/Hz at 1 kHz -82 dBc/Hz at 10 kHz -92 dBc/Hz at 100 kHz -102 dBc/Hz at 1 MHz -112 dBc/Hz at 1 MHz -112 dBc/Hz at 10 MHz -112 dBc/Hz at 10 MHz
10 MHz (-3 to +6 dBm)
-100 dBc/Hz at 10 Hz -130 dBc/Hz at 100 Hz -150 dBc/Hz at 1 kHz -155 dBc/Hz at 10 kHz -155 dBc/Hz at 100 kHz -155 dBc/Hz at 1 MHz
-60 dBc (excluding 2 MHz around the carrier); -30 dBc (line frequency and harmonics); -36 dBc (excluding line frequency and harmonics)
-60 dBc
<-70 dBW/4 kHz in passband; <-140 dBW/4 kHz over Rx band 10.95 to 12.75 GHz
97 to 134 VAC single phase, 360 to 800 Hz.
500 W max.
350 W max.
RF input: TNC (F); RF output: N-Type (F); External reference connection: TNC (F)
Ethernet (SNMP, Telnet, Web); Serial RS422
456.2 x 230.0 x 74.9 mm
10 kg max.
-15°C to +55°C Operating; -40°C to +55°C short term (de-rated) operation
DO-160G, Section 6.0, Category B (DO-160 Certified by 3rd party STC holder/OEM)
DO-160G, Section 10, Category Y (DO-160 Certified by 3rd party STC holder/OEM)
DO-160G, Section 4, Category A3 (DO-160 Certified by 3rd party STC holder/OEM)
Spud; Cooling Fan (optional)
DO-160G, 6G, 11ms Category B (DO-160 Certified by 3rd party STC holder/OEM)
DO-160G, Category R and Curve B3&B4, Category H and Curve R (DO-160 Certified by 3rd party STC holder/OEM)



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For more detailed information, please refer to the corresponding CPI technical description if one has been published or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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