

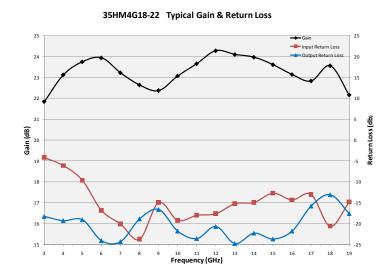
rf/microwave instrumentation

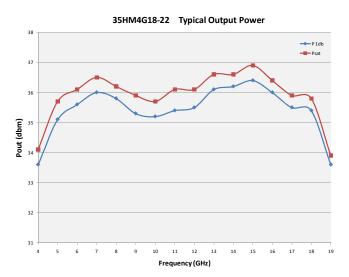
Model 35HM4G18-22 35 dßm CW 4GHz-18GHz

The Model 35HM4G18-22 is a compact, wide-band, hybrid power amplifier module that covers 4-18GHz. When used with a sweep generator, the Model 35HM4G18-22 provides a minimum of 35dBm of RF power instantaneously from 4-18GHz.

The Model 35HM4G18-22 operates from a single DC voltage and provides 22dB of typical gain with excellent gain flatness, noise figure and low intermodulation distortion. It is designed to have low spurious signals, linearity and is extremely load tolerant which enables it to be used in many RF applications that require linearity, power and wide bandwidth. The circuitry consists of balanced topology which provides good input and output return loss and stability. It is a 50 ohm, cascadable building block and can be used as a microwave power amplifier for both the military and commercial industries.

The amplifier circuitry is based on the latest developments in thin film substrates. It incorporates plated-thru holes and air bridge technology to ensure optimum RF performance. The active devices are in chip form, eutectic-die attached and wire-bonded, providing solid-state reliability and long operating life. Special materials and process techniques were selected to achieve excellent thermo-dissipation and capability for meeting stringent military-environment test requirements. The module is hermetically-sealed and should be bolted to a heat sink for good heat dissipation. The RF input/output connectors are field-replaceable.





SPECIFICATIONS, 35HM4G18-22

RATED POWER OUTPUT35 dBm minimum POWER OUTPUT @ 3dB COMPRESSION Minimum35 dBm POWER OUTPUT @ 1dB COMPRESSION Nominal35 dBm FLATNESS ± 1.0 dB typical ±2.0 dB maximum oscillation with any magnitude and phase of source and load impedance. MODULATION CAPABILITY......Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. HARMONIC DISTORTION......Minus 20 dBc maximum at 35 dBm (5-18GHz); 31.5 dBm (4-5 GHz) THIRD ORDER INTERCEPT POINT44 dBm typical DC POWER.....+10V, 4.4A CONNECTORS......SMA female

