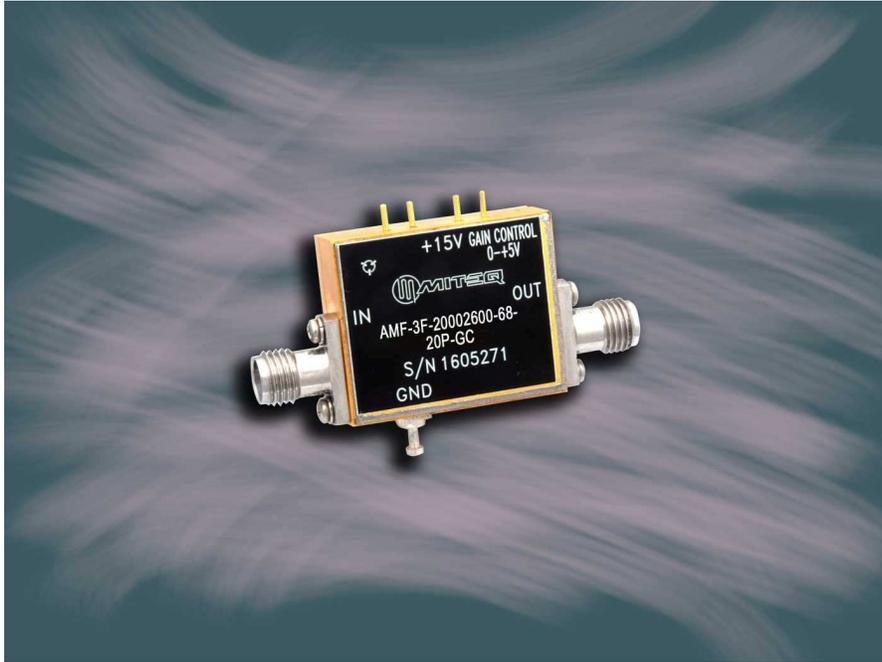




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NEW PRODUCT RELEASE

Compact, Ka-Band Gain Controlled Amplifier

MITEQ Inc. introduces a new addition, Model AMF-3F-20002600-68-20P-GC, to its family of rugged, single bias coaxial amplifiers. This amplifier has over 23 dB of gain from 20 GHz to 26 GHz, in a housing that is only 1" long and 0.83" wide without the field replaceable K-connectors. Application of +5V to the gain control pin decreases gain by 10 dB while maintaining flatness. Gain flatness is a maximum of ± 1.5 dB, though typical is ± 1 dB. The AMF-3F-20002600-68-20P-GC has a maximum noise figure of 6.8 dB in the full band, though the typical value is near 5 dB. It operates from -40 to $+75^{\circ}\text{C}$ of base temperature, has a P1dB minimum of 20 dBm, IP3 of typically 25 dBm, and a current draw of maximum of 500 mA from a single +15V DC supply. At lower gain setting P1dB falls to +15 dBm. Port VSWR is less than 2:1 for both input and output. Composite metal body with a CuW base provides excellent thermal characteristics while the Kovar body allows for hermetic sealing if required. With its built-in sequencing, regulation and protection, only a single positive bias is required.

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