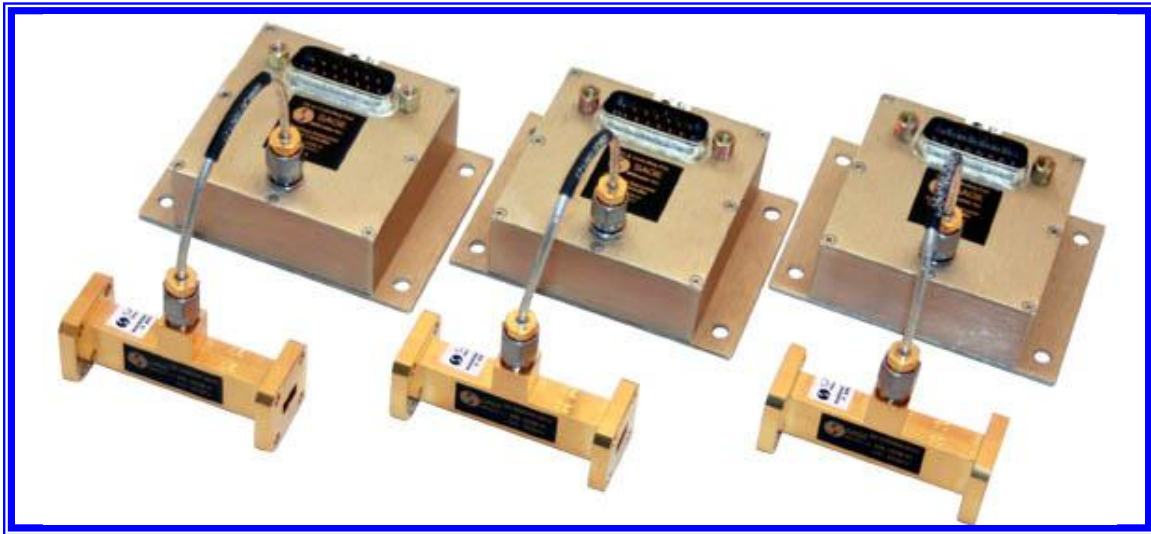


Ka Band Digital Controlled Attenuator



Model SKA-2734033040-2828-D1 is a PIN Diode based digital controlled attenuator. In the entire Ka Band frequency range from 26.5 to 40 GHz, the attenuator offers 3.0 dB insertion loss and 40 dB dynamic range. The attenuation flatness is ± 1.5 dB cross the band and the power handling is +23 dBm CW. The attenuation level is controlled by a digitizing driver which features 6 bits TTL control capacity. The step size of the standard model is set at 1.0 dB and control accuracy is ± 0.5 dB, however, the attenuator is readily for up to 0.25 dB step size and ± 0.25 dB control accuracy by carefully calibrating the system. The control speed is around 100 ns and bias voltage required is ± 10 Vdc/25 mA. The bias voltage and control bits are fed through a 15 pin sub-D connector. The RF interfaces of the attenuator are with standard WR-28 waveguide with UG599/U flanges. While the attenuator and driver of Model SKA-2734033040-2828-D1 are packaged in separate houses, the integrated version is available as custom orders. The frequency bands up to W Band are available under different model numbers.

SAGE Millimeter, Inc.

3043 Kashiwa Street
Torrance, CA 90505
(424)-757-0168; (424)-757-0188 (Fax)
www.sagemillimeter.com