



27.5 – 31 GHz Waveguide Isolator, Ka-band, 2WR34NA

Renaissance has developed a new Ka-band waveguide isolator that is designed for downconverters used in space applications. The isolator can operate between 27.5 – 31 GHz with 0.15 dB insertion loss over 5% bandwidth and 20 dB isolation and return loss. The isolators can handle 1 W forward and reflected RF power levels. All epoxy and RTV used are space qualified.

Features and Benefits

- Use of space qualified hardware
- High Peak and average power handling
- Compact size
- Can be used for Space or harsh environments
- Protects expensive amplifier circuits
- Optimized for space constrained applications

Specifications

Frequency	29.5 - 31 GHz
Insertion loss	0.15 dB
Isolation	20 dB
VSWR	1.20: 1
Power CW	1 W
Power Peak	10 W
Reflected Power	1 W
Temperature	-80 to 70°C
Size	1.1" x 1.1" x 0.875"