



## Fullband Junction Circulators and Isolators

QJE/QJF

### Characteristics

- ◆ Full Waveguide Band
- ◆ Compact
- ◆ High Isolation
- ◆ Low Insertion Loss



### Product Description

QuinStar Technology's **QJE** series **fullband junction circulators** and **QJF** series **fullband junction isolators** are available in two waveguide bands covering the frequency range of 18 to 40 GHz. These H-plane three-port Y-junction ferrite devices feature high isolation, low insertion loss and full waveguide bandwidth.

Junction circulators and isolators are used to provide load isolation in a wide variety of components including Gunn oscillators and amplifiers, upconverters and downconverters, power combiners, and also as duplexers at the antenna ports of millimeter-wave transceiver systems. They are also ideally suited for broadband or swept frequency applications.

### Specifications

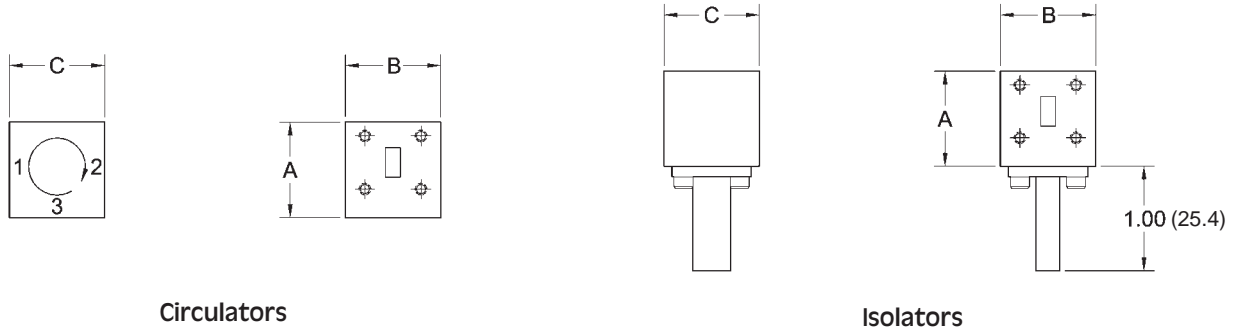
FREQUENCY BAND	K	Ka
Frequency (GHz)	18-26.5	26.5-40
Waveguide Size	WR-42	WR-28
Bandwidth (GHz min)	Full	Full
Isolation	20	18
Insertion Loss (dB max)	0.4	0.6
VSWR	1.25:1	1.3:1
Power Rating (W max)	5	4



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## Outline Drawings/Mechanical Specifications



Circulators

Isolators

FREQUENCY BAND	WAVEGUIDE SIZE	FLANGE PATTERN	OUTLINE DIMENSIONS, inches/mm		
			A	B	C
K	WR-42	UG-595/U	1.15/29.2	0.88/22.4	1.00/25.4
Ka	WR-28	UG-599/U	0.90/22.9	0.90/22.9	0.90/22.9

## Ordering Information

