

# WAVEGUIDE 3 PORT S-BAND CIRCULATOR

MODEL  
3WR284NA

*low loss*  
“Uses a novel  
technique to  
enhance power  
handling  
performances”

Renaissance Electronics Corporation developed this novel S-Band 3 port junction circulator in WR284 waveguide. This circulator is capable of handling high power levels and can be extended up to 50 kW/5kW using forced air cooling. The circulator uses a novel technique to enhance power handling performances and yet still maintain its low loss characteristics. This enables an extremely compact, lightweight circulator to be realized for a given power handling, state-of-the-art capability.



## Characteristics

FREQUENCY BAND	2.7-2.9 GHz
PEAK POWER	30 kW
AVERAGE POWER	3 kW
VSWR	1.15:1 MAX
LOSS	0.25 dB MAX
ISOLATION	20 dB MIN

## Markets

MILITARY	GROUND BASE AND SHIP BORNE RADAR
SPACE	COMMUNICATION AND TELEMETRY
COMMERCIAL	AIR TRAFFIC CONTROL

## Features

- ALUMINUM ALLOY
- Low VSWR
- High ISOLATION
- FERRITE RESONATORS

## Benefits

- PROVIDES COMPACT AND LIGHTWEIGHT DESIGN
- BETTER MATCH TO THE TRANSMITTER
- MINIMIZES INTERACTIONS
- HANDLES BOTH PEAK AND AVERAGE POWER LEVELS



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