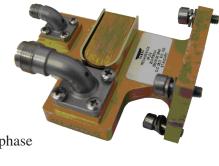
## Waveguide Circulator/ Adapter in Half Height WR90

Model 20WR90NA

Provides Shi excellent isolation between the transmitter and the receiver"

This unique circulator is used to separate forward transmit power from returning receive power in a high power X-Band phased array radar. This type of circulator provides excellent isolation between the transmitter and the receiver. The waveguide size of the circulator is WR90 and features a

half height junction circulator to reduce size and weight in the system. The input power is applied to the TNC connector which launches into waveguide. The receiver port is connected through an SMA connector. Unit to unit insertion phase is controlled using a novel tuning approach thus maintaining equal phase across the array.



## Characteristics

Frequency Band	9.25 – 9.75 GHz
Peak Power	200 W
Average Power	40 W
VSWR	1.3:1 Max
Loss	0.3 dB to +/- 0.1 dB
Isolation	17 dB min
Insertion Phase	+/- 5 degrees

## Markets

Military	Radar Systems
Commercial	Radar Systems

## Features Benefits Novel Reduced Height

· Size/Weight	Circulator Exhibits Compact Size & Weight
· Phase Control	<ul> <li>Unique Design Controls Insertion Phase From Unit to Unit Across Antenna Array</li> </ul>
· Loss	<ul> <li>Extremely Low Loss Ferrite is Specially Designed</li> </ul>



12 Lancaster County Road Harvard, MA 01451 978-772-7774 www.REC-USA.com