

WAVEGUIDE DUAL JUNCTION X-BAND CIRCULATOR WITH LOAD MODEL 3WR90NA

*“Suitable for
systems or
applications
where size and
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premium”*

This dual junction X-Band circulator in WR90 waveguide is used to separate forward transmit power from returning receive power. This type of circulator provides separation between the transmitter and the receiver but also absorbs any high energy reflected power. This is all realized in a compact space which makes it suitable for avionics systems or space applications where size and weight are at a premium.



Characteristics

FREQUENCY BAND	9.2-9.7 GHz
PEAK POWER	10 kW
AVERAGE POWER	500 W
VSWR	1.20:1 MAX, 1.15:1 TYP
Loss	J1-J2 - 0.25 dB MAX, 0.2 dB TYP
	J2-J3 - 0.5 dB MAX, 0.4 dB TYP
ISOLATION	J3-J1 - 20 dB MIN
	J2-J1 - 18 dB MIN
	J3-J2 - 40 dB MIN

Markets

MILITARY	AVIONIC RADAR
COMMERCIAL	AVIONIC RADAR
SPACE	COMMUNICATION SYSTEMS

Features

- SPECIAL SINTERED FERRITE
- HIGH ISOLATION
- WIDE TEMPERATURE RANGE
- LOW INSERTION LOSS

Benefits

- AVOID NON LINEARITY AT HIGH PEAK POWER LEVELS AND MAINTAINS LOW LOSS AT BOTH HIGH AND LOW POWER LEVELS
- MINIMIZES INTERFERENCE DUE TO REFLECT SIGNAL
- ENSURES HIGH TEMPERATURE STABILITY OVER -40° C TO +85° C
- ENSURES LOW SYSTEM NOISE FIGURE


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