

## Distributed Three Port Waveguide Circulator

Model 102483-BBA

Patent No 6,407,646,B1



### Product Overview

This broadband S-band circulator has very good performance in terms of match and isolation. It is of interest for radar applications.

This circulator can be air-cooled or water-cooled for higher average power applications.

### Unit Specifications

#### Air-Cooled

<b>Peak Power</b>	5 MW	<b>Frequency Band</b>	2.7 to 3.05 GHz
<b>Average Power</b>	1.7 KW (max)		
<b>Flanges</b>	CPR284F	<b>VSWR (Port 1)</b>	1.10 max
<b>Gas Pressure</b>	35 PSIG SF <sub>6</sub>	<b>Isolation (Port 1 to Port 3)</b>	>26 db
<b>Length</b>	534 mm	<b>Insertion (Port 1 to Port 2)</b>	<0.3 db

#### Water-Cooled

<b>Peak Power</b>	5 MW	<b>Frequency Band</b>	2.7 to 3.05 GHz
<b>Average Power</b>	6 KW (max)		
<b>Flanges</b>	CPR284F	<b>VSWR (Port 1)</b>	1.10 max
<b>Water Flow</b>	4 GPM		
<b>Water Temperature</b>	25° to 40° C (selectable)	<b>Isolation (Port 1 to Port 3)</b>	>26 db
<b>Gas Pressure</b>	35 PSIG SF <sub>6</sub>	<b>Insertion (Port 1 to Port 2)</b>	<0.3 db
<b>Length</b>	534 mm		

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