

## S-Band Conventional 4-Port Circulator, Model #102574C



### Product Overview

This high power S-band conventional 4-port circulator is attractive for isolating reflection from resonant loads such as accelerators or other similar devices. This circulator can be set at 2.998 GHz, 2.856 GHz or another S-Band frequency. Every power input, ports 1, 2, 3 and 4, has variable insertion E field probes (at each port) for monitoring and/or control signals. These probes can be varied from the nominal -60 db coupling. Typically, in isolator applications, a good high power load (such as our Model #RQ284-3.0) should be attached to receive the reflected power. This circulator is broadband yet has very good narrow band specifications.

### Unit Specifications

<b>Peak Power</b>	15 MW	<b>Center Frequency</b>	2.998 GHz
<b>Average Power</b>	40 KW		
<b>Flanges</b>	CPR284F	<b>VSWR (Port 1)</b>	1.10 max
<b>Required Water Flow</b>	4 GPM @ full 40 KW, 35 PSIG maximum input and pressure		
<b>Required Water Treatment Deionized Water</b>	Deionized Water		
<b>Water Pressure</b>	35 PSIG		
<b>Water Temperature</b>	25° to 40° C (selectable)	<b>Isolation</b> (Port 1 to Port 4) (Port 1 to Port 3)	>38 db >32 db
<b>Gas Pressure</b>	35 PSIG SF <sub>6</sub>		
<b>Weight</b>	97 lbs. (44 kg)		
<b>Length</b>	41" (1039 mm)	<b>Insertion</b> (Port 1 to Port 2)	<0.25 db
<b>Probe Connector</b>	Type N Female		