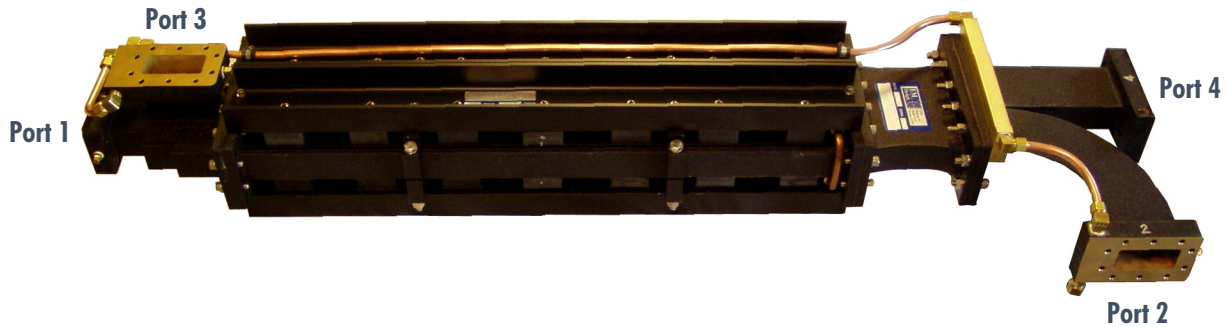


# Very High Average Power Four Port Waveguide Circulator

Model 102637



## Product Overview

This S band circulator is useful with new, high average power klystrons for isolating reflection from resonant loads such as accelerators or other similar devices. This circulator is set for the 2.998 GHz frequency but can be readily optimized for other frequencies, including 2.856 GHz.

Note that every power input, Ports 1, 2, 3 and 4 have enlarged, thick flanges with channels for additional water cooling. Typically, in isolator applications, a good high power load 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>Frequency Band</b>	2.998 (+/- 0.010) GHz
<b>Average Power</b>	70 KW		
<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</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>Length</b>	1290 mm	<b>Insertion</b> (Port 1 to Port 2)	<0.2 db

\* Ferrite Section Requirement

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