

S-Band Conventional 4-Port Circulator, Model #102637D



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

Peak Power	15 MW	Center Frequency	2.998 GHz
Average Power	70 KW		
Flanges	CPR284F	VSWR (Port 1)	1.10 max
Required Water Flow	4 GPM @ full 70 KW, 35 PSIG maximum input and pressure		
Required Water Treatment	Deionized Water		
Water Temperature	25° to 40° C (selectable)	Isolation (Port 1 to Port 4) (Port 1 to Port 3)	>38 db >32 db
Gas Pressure	35 PSIG SF 6		
Weight	135 lbs. (61.4 kg)		
Length	51" (1033 mm)	Insertion (Port 1 to Port 2)	<0.25 db