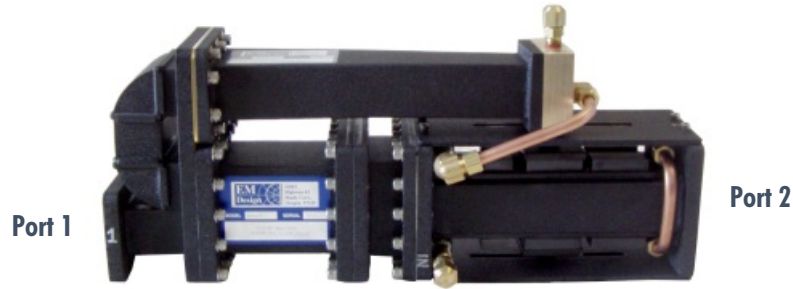


Distributed Three Port Isolator Assembly

Model 102647-NP

Patent Number 6,407,646,B1

Port 3



Product Overview

This Isolator Assembly consists of the EM Design Distributed Three Port Circulator without sampling probes and an EM Design Waterload-Model R284-3.0.

The straight input Port 1 is on the left side and the output Port 2 is shown on the right side of the photograph. The power reflected at Port 2 is absorbed by the load on Port 3.

The high power S band circulator is based on EM Design's unique patented concept and is especially attractive for isolating reflection from resonant loads such as accelerators or other similar devices. This isolator assembly is set for the 2.998 GHz frequency but can be readily optimized for other frequencies, including 2.856 GHz. Water cooling is connected in series so that the flow is conveyed through the circulator and the attached load.

Unit Specifications

Peak Power	8 MW	Frequency Band	2.998 (+/- 0.010) GHz	2.8 to 3.2 GHz
Average Power	8 KW			
Flanges	CPR284F	VSWR (Port 1)	1.10 max	1.2 max
Water Flow	3.5 GPM			
Water Temperature	25° to 40° C (selectable)	Isolation (Port 1 to Port 3)	>37 db	>33 db
Gas Pressure	35 PSIG SF ₆			
Length	478 mm	Insertion (Port 1 to Port 2)	<0.2 db	<0.25 db

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