

**Dummy Load with Coupler, CPR284,
with 1/4" Tube Adapter Fittings**

APPROVALS			REVISIONS			
	INITIALS	DATE	REV	DESCRIPTION	DATE	APPR
Drawn	JFG	03MAR00	1	Prototype Release	03MAR00	JFG
Engineering						
Manufacturing						
Marketing						

1.0 General Description

This document describes an optional configuration of the standard model GA1210 Dummy Load Coupler. This particular configuration includes tube adapter fittings that are compatible with standard Swagelok 1/4" tube fittings. Mating elbow fittings can be positioned in any orientation to simplify installation.

Based on GAE's popular line of high power and compact dummy loads, the standard GA1210 has a coupler port that can be used for measuring incident microwave power. When used with any standard 3-port circulator in an isolator configuration these loads provide an economical means of monitoring reflected microwave power.

As with all GAE dummy loads, the GA1210 use water as the absorptive medium in a polyethylene insert to provide excellent performance and long life at up to 3kW continuous input power. The naval brass water connection block minimizes corrosion due to harsh water supplies to further enhance reliability and extend life.

2.0 Specifications**2.1 Electrical**

Frequency	2450 MHz +/- 50 MHz
Input Power	3 kW continuous max.
Return Loss	23 dB min.
Coupling Factor	60 dB +/- 1 dB

2.2 Mechanical

Waveguide	WR284 (RG75/U)
Input Flange	CPR (UG1725/U)
Output Connector	Type N female
Water Connections	1/4" tube adapter fittings, Cajon # SS-4-TA-1-2 (mates with standard Swagelok 1/4" fittings)
Water Flow	0.5 gpm min. at full input power, 70 psi max., 50°C max.
Construction	Aluminum waveguide body; Steel output connector
Finish	Clear conversion coating (Alodine); Black paint

3.0 Ordering Information

Part Number	910406
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4.0 Outline Drawing

