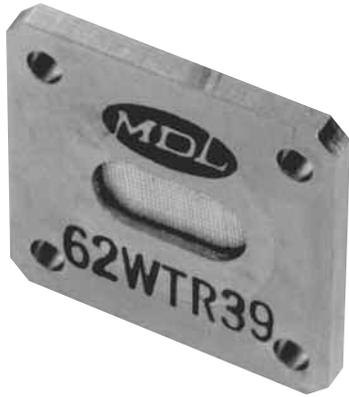


Section 10

Waveguide Pressure Windows



Introduction

The MDL teflon/fiberglass pressure windows provide a seal within waveguide systems while passing microwave energy freely. The maintained pressure ensures maximum performance, and the seal prevents entry of moisture, dirt, and dust.

The teflon/fiberglass pressure flange windows will not hold a vacuum seal. These windows are made of aluminum base material with an iridite finish but can be made of copper alloy material with a silver plated finish on a special order basis.

A safety factor is included in the power handling specifications of all MDL pressure windows.

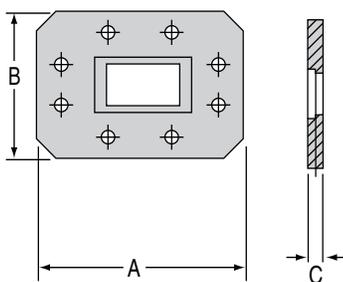
All window surfaces are design-tested at atmospheric pressure with a one microsecond pulse at 1000pps repetition rate.

Pressure Windows waveguide

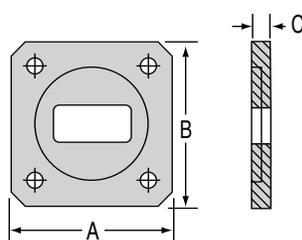
W/G SIZE	FREQ. RANGE (GHz)	ELECTRICAL DATA					MECHANICAL DATA		
		MODEL NUMBER	MAX. VSWR	PEAK POWER (KW) ***	MAX. PRESSURE (PSIG) *	STYLE NO.	LENGTH A	FRAME WIDTH B	THICKNESS C

Flange Windows

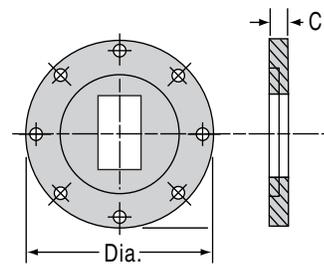
WR28	26.5-40.0	28WT16	1.15	45	30/20	2	0.75	0.75	0.06
	34.0-36.0	28WT26	1.06	45	30/20	2	0.75	0.75	0.06
WR34	22.0-33.0	34WT16	1.15	50	30/20	2	0.87	0.87	0.06
WR42	18.0-26.0	42WT16	1.15	60	30/20	2	0.87	0.87	0.06
WR51	15.0-22.0	51WT16	1.10	100	45/45	2	1.31	1.31	0.12
WR62	12.4-18.0	62WT16	1.10	150	45/45	2	1.31	1.31	0.12
		62WT46++	1.10	150	45/45	2	1.31	1.31	0.12
WR75	10.0-15.0	75WT16	1.10	300	45/45	2	1.50	1.50	0.12
WR90	8.2-12.4	90WT36-1**	1.10	500	45/45	2	1.62	1.62	0.12
		90WT36-2**	1.10	500	45/45	2	1.62	1.62	0.12
		90WT36-3**	1.12	500	45/45	2	1.62	1.62	0.19
	10.2-10.6	90WT46++	1.08	500	45/45	2	1.62	1.62	0.12
	8.2-12.4	90WT56 ϕ	1.10	500	45/45	2	1.62	1.62	0.37
	8.2-11.0	CPR90WT16	1.10	300	30/30	1	2.09	1.59	0.12
	8.2-12.4	90WT16	1.10	300	45/45	2	1.62	1.62	0.12
WR102	8.5-9.6	90WT26	1.08	300	45/45	2	1.62	1.62	0.12
	8.2-12.4	90WT66 ϕ	1.10	500	45/45	2	1.62	1.62	0.75
WR102	7.05-11.0	102WT16	1.10	800	45/45	2	1.68	1.68	0.12
WR112	7.05-10.0	CPR112WT16	1.10	500	30/30	1	2.50	1.75	0.12
	8.5-9.6	112WT26	1.08	500	45/45	2	1.87	1.87	0.12
	7.05-10.0	112WT16	1.10	500	45/45	2	1.87	1.87	0.12
WR137	5.85-8.2	137WT16	1.10	1000	45/45	3		3.12 Dia.	0.18
		CPR137WT16	1.10	1000	30/30	1	2.69	1.94	0.19
WR187	3.95-5.85	187WT16	1.10	1500	45/45	3		3.62 Dia.	0.25
		CPR187WT16	1.12	1500	30/30	1	3.50	2.50	0.25
	3.3-4.9	CPR229WT16	1.10	1750	30/30	1	3.88	2.75	0.25
WR284	2.6-3.95	284WT16	1.10	2000	45/45	3		5.31 Dia.	0.25
		CPR284WT16	1.10	2000	45/45	1	4.50	3.00	0.25



STYLE 1



STYLE 2



STYLE 3

Notes: * The higher number indicates maximum pressure applied to the insert side of the window.

The other number is the max. pressure applied to the opposite side of the window provided the insert side is supported by a cover flange.

- Choke/flat window adapter.

Flange configuration other than those shown are available on special order.

ϕ Choke/choke window adapter.

Δ Nominal, .xx = 0.020 inches.

** 90WT36 groove equivalent to WR90 choke "O" ring groove.

MOD 1 with groove on insert side.

MOD 2 with groove on flat side.

MOD 3 with groove on both sides

*** Duty cycle .001