

WAVEGUIDE TO COAXIAL FERRITE ISODUCERS

SPECIFICATIONS

WAVEGUIDE SIZE		MATING FLANGE	BANDWIDTH (GHz)	ISOLATION (dB MIN)	VSWR	INSERTION LOSS :dB MAX)	POWER (MEAN) HANDLING (FORWARD DIRECTION)	TYPE NO.
W/G	WR							
10	284	UG53/U	2.7 - 3.1	20	1.25:1	0.4	40W	WCI-102
10	284	UG53/U	2.9 - 3.5	20	1.25:1	0.4	40W	WCI-103
14	137	UG344/U	6.4 - 7.1	20	1.25:1	0.4	25W	WCI-141
14	137	UG344/U	6.9 - 7.7	20	1.25:1	0.4	25W	WCI-142
15	112	UG51/U	7.6 - 8.5	20	1.25:1	0.4	25W	WCI-151
15	112	UG51/U	8.4 - 9.6	20	1.25:1	0.4	25W	WCI-152
16	90	UG39/U	8.4 - 9.6	20	1.25:1	0.4	25W	WCI-162
16	90	UG39/U	9.5 - 10.5	20	1.25:1	0.4	25W	WCI-163
16	90	UG39/U	10.4 - 11.5	20	1.25:1	0.4	25W	WCI-164
17	75	UBR120	11.7 - 12.5	20	1.25:1	0.5	20W	WCI-1710
17	75	UBR120	12.4 - 13.7	20	1.25:1	0.5	20W	WCI-1712
18	62	UG.419/U	13.5 - 15.0	20	1.25:1	0.5	20W	WCI-1810
18	62	UG.419/U	15.0 - 16.2	20	1.25:1	0.5	20W	WCI-1811
18	62	UG.419/U	16.2 - 17.5	20	1.25:1	0.5	20W	WCI-1812

ISODUCER DIMENSIONS

WAVEGUIDE SIZE	DIMENSIONS MM (INCHES) NOMINAL					FLANGE TYPE
	A	B	C	D	E	
WG 10 (WR 284)	76.5 (3.0)	45 (1.77)	13.5 (.53)	25 (1.0)	51.5 (2.0)	UDR 32
WG 14 (WR 137)	38.5 (1.5)	26 (1.0)	13 (.51)	16.5 (.65)	36 (1.42)	CPR 137F <small>See note 3</small>
WG 15 (WR 112)	32.5 (1.28)	23 (.9)	13 (.51)	16 (.63)	27.5 (1.08)	UBR 84
WG 16 (WR 90)	32 (1.26)	19.5 (.77)	14 (.55)	20.5 (.81)	25.5 (1.0)	UBR 100
WG 17 (WR 75)	32 (1.26)	19.5 (.77)	15 (.59)	16.5 (.65)	28.5 (1.12)	UBR 120
WG 8 (WR 62)	24.5 (.96)	13.5 (.53)	15 (.59)	22.5 (.88)	24.5 (.96)	UBR 140

NOTES

- Dimensions A, B, and E may vary with method of manufacture.
- Orientation of isolator may vary to suit customer requirements.
- CPR 137 F flange may be fitted to WG 14 isoducer but with tapped holes. (10-32 UNF standard) holes only, due to proximity of isolator to flange

NOTES

- Standard reverse power handling is 1 W (mean) at 25°C but higher power handling up to 15 W (reverse) at 25°C can be specified.
- The standard co-axial port is normally fitted with SMA (F); other types of connectors (including 'tab') can be made available on request.
- The above specifications cover an operating temperature of - 40°C to + 85°C.
- Storage temperature for all types is - 50°C to + 100°C.
- Power ratings are applicable to an altitude of 3000m (10,000 ft) maximum.
- Close proximity of magnetic materials may affect operation of units. Consult factory for details.

