



DOUBLE-RIDGE WAVEGUIDE

STRAIGHT SECTIONS, BENDS AND TWISTS

R10 R120 R130 R150 SERIES

DATA SHEET
No. T34E

- **LOW VSWR**
- **LOW INSERTION LOSS**
- **PRECISION FABRICATION**

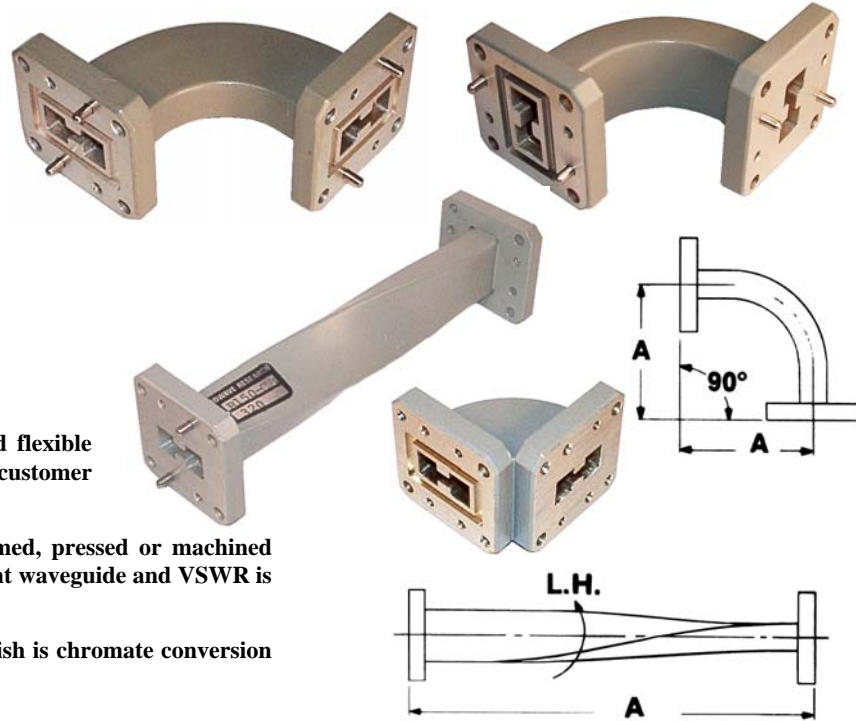
DESCRIPTION

MEC offers a complete line of waveguide assemblies in straight sections R10 Series; single E-plane bends R120 Series; H-bends R130 Series and twists R150 Series. Besides the choice of length, bend angle and flange type, these assemblies may also include a wide variety of options such as built-in pressure windows, pressurizing ports, valves, gauges, integral coaxial adapter at one or both ends, bulkheads or brackets for special mounting.

Custom configurations combining multiple bends, rigid and flexible sections with any of the options above may be made to customer drawing or by fit-checking in actual installation.

The standard bends such as those listed below can be formed, pressed or machined depending on application. Insertion loss is the same as straight waveguide and VSWR is 1.10:1 maximum.

Waveguide is aluminum and conforms to MIL-W-23351, finish is chromate conversion per MIL-C-5541, Class 3 and paint is gray epoxy enamel.



SPECIFICATIONS

FREQUENCY (GHz)	WAVEGUIDE SIZE	STRAIGHT SECTION MODEL NO.	E PLANE BEND		H PLANE BEND		MACHINED H BEND		TWIST	
			MODEL NO.	A	MODEL NO.	A	MODEL NO.	A	MODEL NO.	A
18.0 – 40.0	WRD-180C24	R15	R125	1.5	R135	1.5	-	-	R155	3.0
11.0 – 26.5	WRD-110C24	R16	R126	1.5	R136	1.5	-	-	R156	4.0
7.5 – 18.0	WRD-750D24	R10	R120	1.6	R130	1.7	R130M	.925	R150	5.0
6.5 – 18.0	WRD-650D28	R17	R127	1.5	R137	1.7	R137M	.925	R157	5.0
5.8 – 16.0	WRD-580D28	R18	R128	1.6	R138	1.7	R138M	.925	R158	5.0
4.75 – 11.0	WRD-475D24	R11	R121	2.5	R131	3.0	R131M	1.25	R151	5.5
4.8 – 11.0	DR-19	R19	R129	2.5	R139	3.0	R139M	1.312	R159	5.5
3.5 – 8.2	WRD-350D24	R12	R122	3.0	R132	3.5	R132M	1.625	R152	6.0
2.0 – 4.8	WRD-200D24	R13	R123	6.5	R133	7.0	R133M	2.15	R153	11.0

ORDERING INFORMATION

(1) For straight sections, add suffixes to the model number as follows:

- (a) Length: Specify flange face-to-face length in inches.
 (b) Flanges: C for Cover G for Gasket

- 1 for alternate tapped and clearance holes
 2 for all tapped holes
 3 for all clearance holes
 4 for all captive screws
 5 for all threaded inserts

(2) For bends and twists:

- (a) Unless otherwise specified, units are supplied as 90° bends or twists. For angles other than 90°, specify desired angle and leg lengths.
 (b) C1 cover flanges are standard.
 (c) Always specify frequency band desired, if not full band, to obtain best VSWR.

