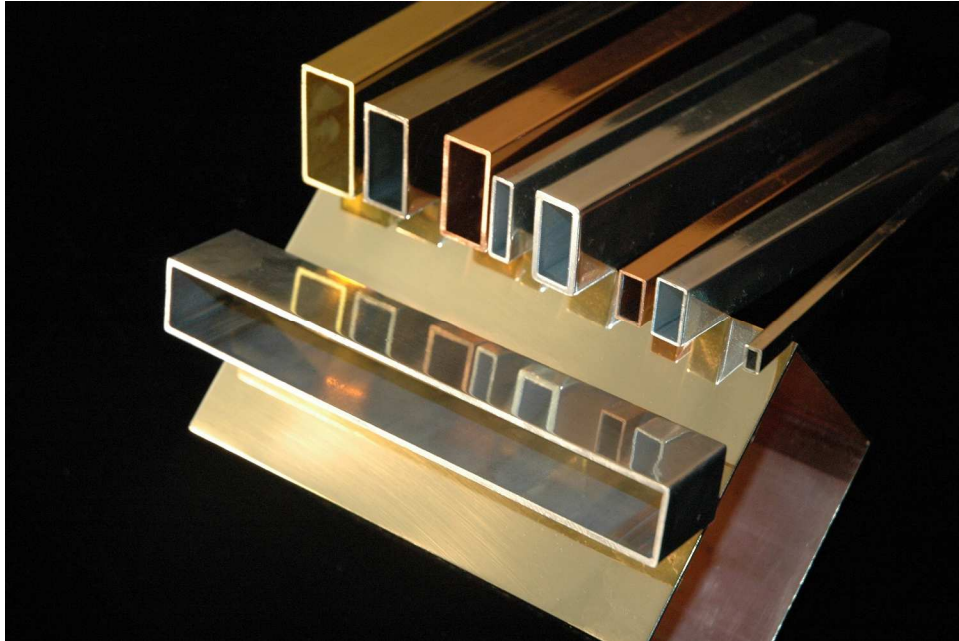


RIGID RECTANGULAR WAVEGUIDES from 2 to 50 GHz



Main Characteristics

IEC R	EIA WR	Frequency Range (GHz)	External Dimensions (mm)	Internal Dimensions (mm)	External Tolerances / Internal Tolerances (mm)	Wall Thickness (mm)
32	284	2.6 – 3.95	76.200 x 38.100	72.140 x 34.040	±0.100 / ±0.100	2.030
40	229	3.22 – 4.90	61.420 x 32.330	58.170 x 29.083	±0.076 / ±0.076	1.625
48	187	3.94 – 5.99	50.800 x 25.400	47.549 x 22.149	±0.100 / ±0.095	1.625
58	159	4.64 – 7.05	43.640 x 23.440	40.386 x 20.193	±0.051 / ±0.051	1.625
70	137	5.38 – 8.18	38.100 x 19.050	34.849 x 15.799	±0.051 / ±0.046	1.625
84	112	6.58 – 10.0	31.750 x 15.880	28.499 x 12.624	±0.051 / ±0.038	1.625
100	90	8.20 – 12.5	25.400 x 12.700	22.860 x 10.160	±0.025 / ±0.025	1.270
120	75	9.84 – 15.0	21.590 x 12.060	19.050 x 9.525	±0.025 / ±0.025	1.270
140	62	11.9 – 18.0	17.830 x 9.830	15.799 x 7.899	±0.025 / ±0.020	1.015
180	51	14.5 – 22.0	14.990 x 8.510	12.954 x 6.477	±0.025 / ±0.020	1.015
220	42	17.6 – 26.7	12.700 x 6.350	10.668 x 4.318	±0.025 / ±0.020	1.015
260	34	21.7 – 33.0	10.670 x 6.350	8.636 x 4.318	±0.025 / ±0.020	1.015
320	28	26.4 – 40.1	9.140 x 5.590	7.112 x 3.556	±0.025 / ±0.020	1.015
400	22	33.0 – 50.1	7.720 x 4.880	5.690 x 2.845	±0.025 / ±0.020	1.015

FLANGE MATERIAL:

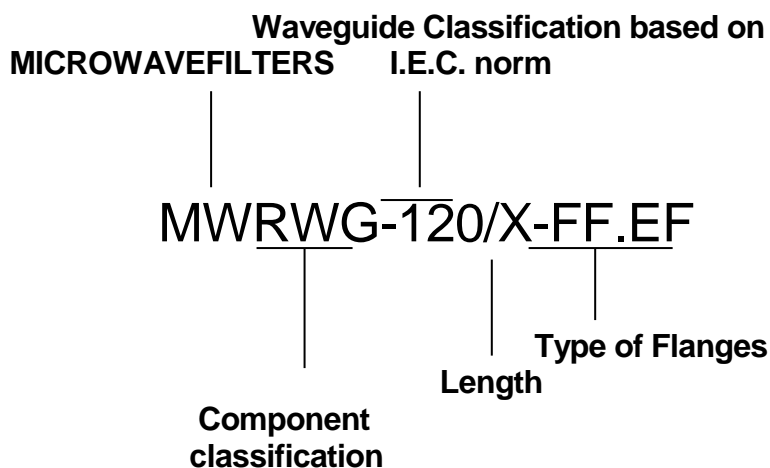
Flanges: Brass 58

MICROWAVEFILTERS offers a wide variety of flanges including European "154 IEC" standard, American MIL specification "UG" flanges and American EIA "CPR" types. Special flanges can be supplied upon request.

CONNECTION FLANGES

IEC	EIA	RSC	Flange Types	Description of use
R 40	WR 229	WG 11A	UERF-UDRF PDRF	<p>UERF= rectangular section for flexible waveguide (for indoor) UDRF= rectangular section for flexible waveguide (for outdoor) PDRF= rectangular section for flexible waveguide (for outdoor with gasket) UBRF= square section for flexible waveguide (for indoor and outdoor) PBRF= square section for flexible waveguide (for indoor and outdoor with gasket)</p> <p><u>MICROWAVEFILTERS CLASSIFICATION:</u></p> <p>AF = UERF BF = UARF CF = PARF DF = UDRF EF = PDRF FF = UBRF GF = PBRF</p>
R 48	WR 187	WG 12	UERF-UDRF PDRF	
R 70	WR 137	WG 14	UERF-UDRF PDRF	
R 84	WR 112	WG 15	UDRF-PDRF UBRF-PBRF	
R 100	WR 90	WG 16	UDRF-PDRF UBRF-PBRF	
R 120	WR 75	WG 17	UDRF-PDRF UBRF-PBRF	
R 140	WR 62	WG 18	UDRF-PDRF UBRF-PBRF	
R 180	WR 51	WG 19	UDRF-PDRF UBRF-PBRF	
R 220	WR 42	WG 20	UBRF-PBRF	
R 320	WR 28	WG 22	UBRF-PBRF	

HOW TO CREATE THE CODE FOR THE RIGID RECTANGULAR WAVEGUIDE COMPONENTS



Example:

The MWRWG-120/X-FF.EF code is for a rigid and straight R120 waveguide, with flanges UBRF - PDRF and length X.