

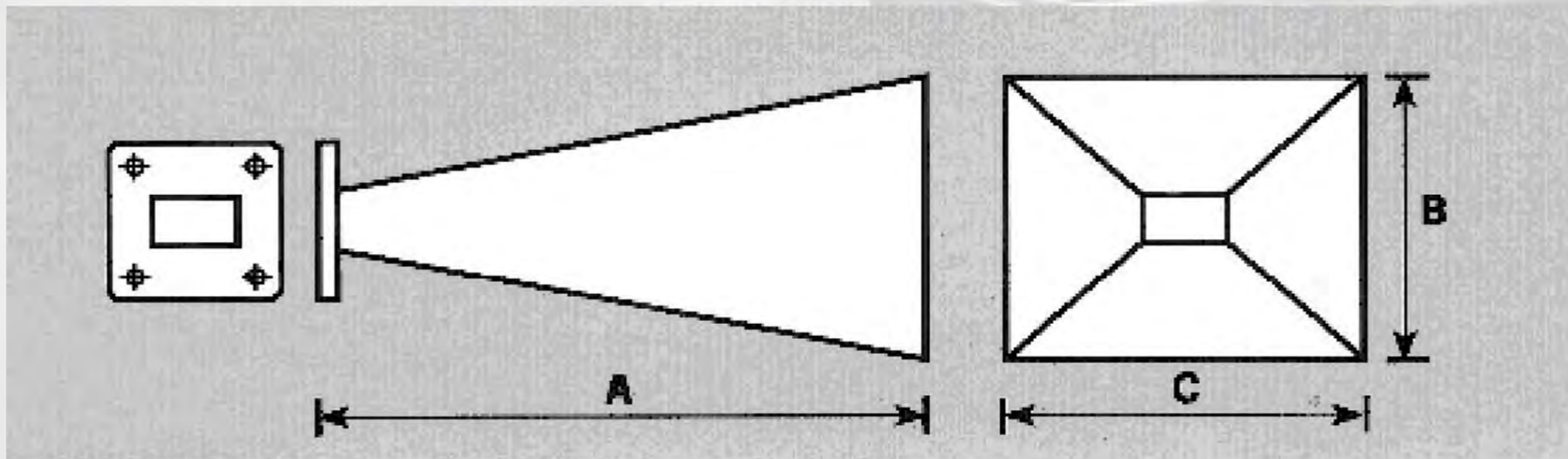


WAVEGUIDE HORNS

BROADBAND HORNS (Gain 10 dB)

Standard Rectangular

Specification:	V.S.W.R. – 1.25 Max
	Beamwidth (approx) = 50 deg
Material:	Brass, Copper or Aluminium
Finish:	Blue Paint, Silver Plated Iridited or Chromated Flanges
Full Band Flatness:	B & C are given for the inside dimensions of the Horn aperture



Operating Frequency Band (GHz)	Waveguide Designation			PART NUMBER	Length "A"	Height "B"	Width "C"	Body material	Fabricated	Electroformed
	UK WG	IEC R	E.I.A. WR							
3.95 – 5.85	12	48	187	BH 12-SQH-(***)-A-10	152	57	76	Al	✓	
5.85 – 8.20	14	70	137	BH 14-SQB-(***)-B-10	113	41	70	Br	✓	
7.05 – 10.0	15	84	112	BH 15-SQB-(***)-C-10	89	34	44	Br		✓
8.20 – 12.40	16	100	90	BH 16-SQB-(***)-C-10	70	29	42	Al		✓
10.0 – 15.0	17	120	75	BH 17-SQB-(***)-B-10	64	26	35	Al	✓	
12.4 – 18.0	18	140	62	BH 18-SQB-(***)-C-10	54	21	25	Br		✓
18.0 – 26.5	20	220	42	BH 20-SQB-(***)-C-10	38	14	17	Cu		✓
26.5 – 40.0	22	320	28	BH 22-SQB-(***)-C-10	29	11	14	Cu		✓

*** For 3 Digit Rectangular Flange part number, refer to the Flange Catalogue, or consult the factory.

BROADBAND HORNS (Gain 15 dB)

Standard Rectangular

Specification:	V.S.W.R. – 1.25 Max
	Beamwidth (approx) = 32 deg
Material:	Brass, Copper or Aluminium
Finish:	Blue Paint, Silver Plated Iridited or Chromated Flanges
Full Band Flatness:	B & C are given for the inside dimensions of the Horn aperture

Operating Frequency Band (GHz)	Waveguide Designation			PART NUMBER	Length "A"	Height "B"	Width "C"	Body material	Fabricated	Electroformed
	UK WG	IEC R	E.I.A. WR							
2.60 – 3.95	10	32	284	BH 10-SQH-(***)-A-15	435	146	200	Al	✓	
3.30 – 4.90	11A	40	229	BH 11A-SQH-(***)-B-15	343	119	159	Br	✓	
3.95 – 5.85	12	48	187	BH 12-SQH-(***)-B-15	279	95	127	Br	✓	
4.90 – 7.05	13	58	159	BH 13-SQH-(***)-B-15	241	81	109	Br	✓	
5.85 – 8.20	14	70	137	BH 14-SQH-(***)-B-15	203	67	90	Br	✓	
7.05 – 10.0	15	84	112	BH 15-SQH-(***)-C-15	159	54	73	Cu		✓
8.20 – 12.40	16	100	90	BH 16-SQH-(***)-C-15	157	50	67	Cu		✓
12.4 – 18.0	18	140	62	BH 18-SQH-(***)-C-15	97	32	41	Cu		✓
26.5 – 40.0	22	320	28	BH 22-SQH-(***)-C-15	51	16	22	Cu		✓

*** For 3 Digit Rectangular Flange part number, refer to the Flange Catalogue, or consult the factory.

BROADBAND HORNS (Gain 20 dB)

Standard Rectangular

Specification:	V.S.W.R. – 1.25 Max
	Beamwidth (approx) = 20 deg
Material:	Brass, Copper or Aluminium
Finish:	Blue Paint, Silver Plated Iridited or Chromated Flanges
Full Band Flatness:	B & C are given for the inside dimensions of the Horn aperture

Operating Frequency Band (GHz)	Waveguide Designation			PART NUMBER	Length "A"	Height "B"	Width "C"	Body material	Fabricated	Electroformed
	UK WG	IEC R	E.I.A. WR							
2.60 – 3.95	10	32	284	BH 10-SQH-(***)-A-20	797	276	375	Al	✓	
3.30 – 4.90	11A	40	229	BH 11A-SQH-(***)-A-20	483	260	351	Al	✓	
3.95 – 5.85	12	48	187	BH 12-SQB-(***)-B-20	421	170	230	Br	✓	
4.90 – 7.05	13	58	159	BH 13-SQB-(***)-B-20	413	239	297	Br	✓	
5.85 – 8.20	14	70	137	BH 14-SQB-(***)-B-20	343	121	162	Br	✓	
7.05 – 10.0	15	84	112	BH 15-SQB-(***)-B-20	300	95	130	Br	✓	
8.20 – 12.40	16	100	90	BH 16-SQB-(***)-B-20	273	95	127	Br	✓	
10.0 – 15.0	17	120	75	BH 17-SQB-(***)-B-20	216	67	87	Br	✓	
12.4 – 18.0	18	140	62	BH 18-SQB-(***)-C-20	162	54	73	Cu		✓
18.0 – 26.5	20	220	42	BH 20-SQB-(***)-C-20	111	38	51	Cu		✓
26.5 – 40.0	22	320	28	BH 22-SQB-(***)-C-20	84	29	38	Cu		✓

*** For 3 Digit Rectangular Flange part number, refer to the Flange Catalogue, or consult the factory.



GAIN
10 = 10 dB (STANDARD)
15 = 15 dB (STANDARD)
20 = 20 dB (STANDARD)

MATERIAL
 SEE SPECIFICATION TABLE AND INSERT THE APPROPRIATE LETTER
A= ALUMINIUM
B= BRASS
C= COPPER

INPUT FLANGE
 SELECT THE REQUIRED FLANGE BY SELECTING THE LAST 3 DIGITS OF THE FLANGE PART No.
 E.g. 402= UBR FLANGE

FINISH
Z = UNPLATED (OPTIONAL NON-STANDARD)
H = CHROMATED FLANGES
F = IRIDITE
A = TIN (OPTIONAL NON-STANDARD)
B = SILVER (STANDARD)

PAINT
Q = BLUE (STANDARD)
B = BLACK (OPTIONAL, NON-

TYPE
S = STANDARD

WAVEGUIDE SIZE
 USE THE BRITISH WG SIZE FOR RECTANGULAR WAVEGUIDE
 E.g. 16= WAVEGUIDE SIZE WG16

PRODUCT CODE
BH=BROAD BAND WAVEGUIDE HORN

Notes:

- 1) The flange should suit the horn material to remain standard.
- 2) Weather shields and mounting brackets available upon request
- 3) Inputs with integral wg/coax transitions available upon request

