



WAVEGUIDE TAPER TRANSITIONS

TAPER TRANSITIONS

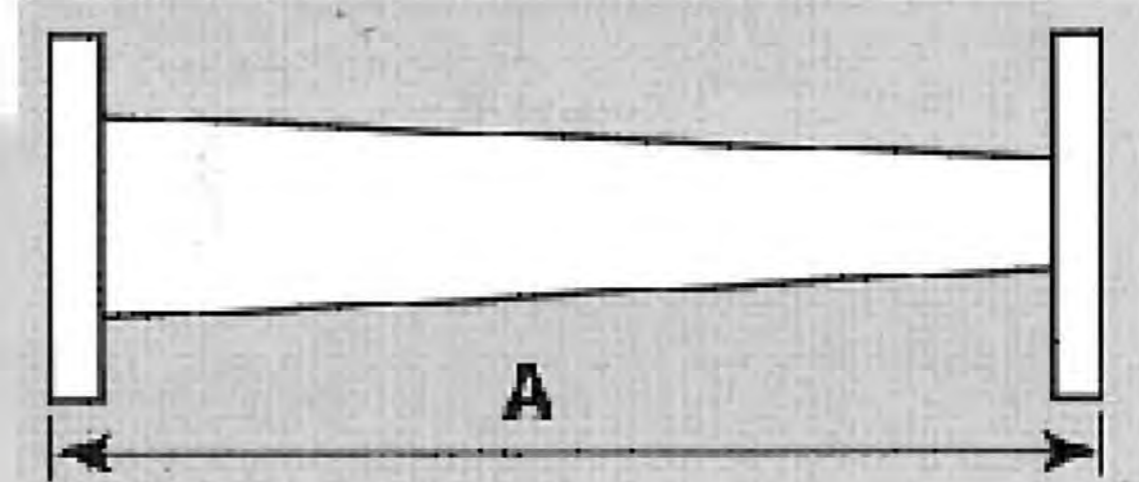
Standard Rectangular to Rectangular

Specification:

V.S.W.R: Please refer to tables

Material: Copper Electroform or Machined Aluminium/Brass Fabrication

Finish: Blue Paint, Silver Plated Brass or Chromated / Iridited Aluminium Flanges



Overlapping Frequency Band (GHz)	Waveguide Designation						PART NUMBER	Max V.S.W.R.	Material	Overall Length "A" (mm)
	UK WG		IEC R		E.I.A. WR					
	From	To	From	To	From	To				
2.60 – 3.30	9A	10	26	32	340	284	TT 9A –SQB-(***-**-*)-B-10	1.05	Brass	261
2.60 – 3.95	10F	10	F32	32	-	284	TT 10F –SQB-(***-**-*)-B-10	1.05	Brass	153
2.60 – 3.95	10M	10	M32	32	-	284	TT 10M –SQB-(***-**-*)-B-10	1.05	Brass	203
3.30 – 3.95	10	11A	32	40	284	159	TT 10 –SQB-(***-**-*)-B-11A	1.05	Brass	102
3.95 – 4.90	11A	12	40	48	229	187	TT 11A –SQB-(***-**-*)-C-12	1.05	Copper	222
3.95 – 4.90	11A	12	40	48	229	187	TT 11A –SQB-(***-**-*)-B-12	1.05	Brass	102
4.90 – 5.85	12	13	48	58	187	159	TT 12 –SQB-(***-**-*)-C-13	1.05	Copper	191
4.90 – 5.85	12	13	48	58	187	159	TT 12 –SQB-(***-**-*)-B-13	1.05	Brass	102
5.85 – 7.05	13	14	58	70	159	137	TT 13 –SQB-(***-**-*)-C-14	1.05	Copper	168
5.85 – 7.05	13	14	58	70	159	137	TT 13 –SQB-(***-**-*)-B-14	1.05	Brass	102
7.05 – 8.20	14	15	70	84	137	112	TT 14 –SQB-(***-**-*)-C-15	1.05	Copper	140
7.05 – 8.20	14	15	70	84	137	112	TT 14 –SQB-(***-**-*)-B-15	1.05	Brass	102
8.20 – 10.00	15	16	84	100	112	90	TT 15 –SQB-(***-**-*)-C-16	1.05	Copper	121
8.20 – 10.00	15	16	84	100	112	90	TT 15 –SQB-(***-**-*)-B-16	1.05	Brass	101
8.20 – 12.40	16M	16	M100	100	-	90	TT 16M –SQB-(***-**-*)-B-16	1.05	Brass	153
10.00 -12.40	16	17	100	120	90	75	TT 16 –SQB-(***-**-*)-C-17	1.05	Copper	61
10.00 -12.40	16	17	100	120	90	75	TT 16 –SQB-(***-**-*)-B-17	1.05	Brass	38
12.40 -15.00	17	18	120	140	75	62	TT 17 –SQB-(***-**-*)-C-18	1.05	Copper	61
12.40 -15.00	17	18	120	140	75	62	TT 17 –SQB-(***-**-*)-B-18	1.05	Brass	38
15.00 -18.00	18	19	140	180	62	51	TT 18 –SQB-(***-**-*)-B-19	1.075	Brass	38
18.00 -22.00	19	20	180	220	51	42	TT 19 –SQB-(***-**-*)-B-20	1.10	Brass	38
17.7 - 26.50	20	21	220	280	42	34	TT 20 –SQB-(***-**-*)-B-21	1.10	Brass	38
22.00 -33.00	21	22	280	320	34	28	TT 21 –SQB-(***-**-*)-B-22	1.10	Brass	38
26.5 - 40.00	22	23	320	400	28	22	TT 22 –SQB-(***-**-*)-C-23	1.10	Copper	38
Standard Rectangular to Rectangular WR102										
7.05 –10.00	15	99	84	-	112	102	TT 15 –SQB-(***-**-*)-B-99	1.05	Brass	102
8.20 – 11.00	16	99	100	-	90	102	TT 16 –SQB-(***-**-*)-B-99	1.05	Brass	102

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

***** For 5-digit non-standard part number refer to the factory.

TAPER TRANSITIONS

Standard Double Ridge to Double Ridge

Specification:

V.S.W.R: Please refer to tables

Material: Machined Aluminium

Finish: Blue Paint, Chromate / Iridite Aluminium

Overlapping Frequency Band (GHz)	Waveguide Designation		PART NUMBER	Max V.S.W.R.	Material	Overall Length "A" (mm)
	From	To				
6.50 – 11.00	WRD 475 D24	WRD 650 D28	TT 475 –SQG-(***-**-*)-A-650	1.05	Aluminium	76
7.50 – 11.00	WRD 475 D24	WRD 750 D24	TT 475 –SQG-(***-**-*)-A-750	1.05	Aluminium	76
6.50 – 16.00	WRD 580 D28	WRD 650 D28	TT 580 –SQG-(***-**-*)-A-650	1.05	Aluminium	76
7.50 – 16.00	WRD 580 D28	WRD 750 D24	TT 580 –SQG-(***-**-*)-A-750	1.05	Aluminium	76
7.50 – 18.00	WRD 650 D28	WRD 750 D24	TT 650 –SQG-(***-**-*)-A-750	1.05	Aluminium	76

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

TAPER TRANSITIONS

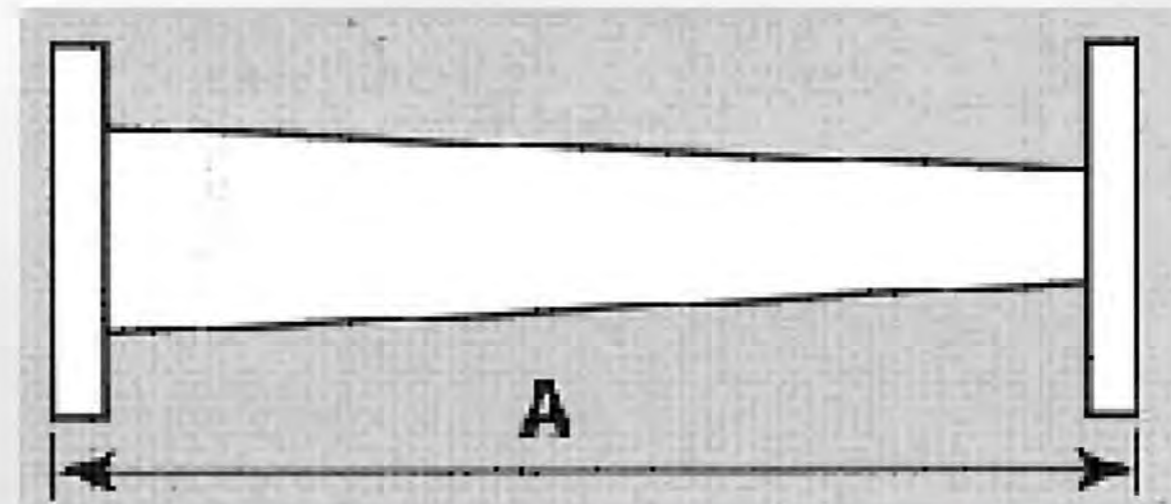
Standard Rectangular to Double Ridge

Specification:

V.S.W.R.: Please refer to tables

Material: Machined Aluminium or Brass
Fabrication

Finish: Blue Paint, Chromate / Iridite or
Silver Plated Flanges



Overlapping Frequency Band (GHz)	Waveguide Designation						PART NUMBER	Max V.S.W. R.	Material	Overall Length "A" (mm)
	From	To	From	To	From	To				
	UK WG	WRD	IEC R	WRD	EIA WR	WRD				
4.75 – 5.85	12	475	48	475	187	475	TT 12 – SQB-(***)-B-475	1.05	Brass	140
5.85 – 8.20	14	350	70	350	137	350	TT 14 – SQH-(***)-A-350	1.05	Aluminium	89
5.85 – 8.20	14	475	70	475	137	475	TT 14 – SQB-(***)-B-475	1.05	Brass	89
5.85 – 8.20	14	580	70	580	137	580	TT 14 – SQH-(***)-A-580	1.05	Aluminium	116
6.50 – 8.20	14	650	70	650	137	650	TT 14 – SQB-(***)-B-650	1.05	Brass	89
7.05 – 10.00	15	650	84	650	112	650	TT 15 – SQB-(***)-B-650	1.05	Brass	89
7.5 – 10.00	15	750	84	750	112	750	TT 15 – SQB-(***)-B-750	1.05	Brass	89
8.20 – 11.00	16	475	100	475	90	475	TT 16 – SQB-(***)-B-475	1.05	Brass	89
8.20 – 12.40	16	650	100	650	90	650	TT 16 – SQH-(***)-A-650	1.05	Aluminium	89
8.20 – 12.40	16	750	100	750	90	750	TT 16 – SQH-(***)-A-750	1.05	Aluminium	89
10.00 - 15.00	17	580	120	580	75	580	TT 17 – SQH-(***)-A-580	1.05	Aluminium	103
12.40 - 18.00	18	750	140	750	62	750	TT 18 – SQH-(***)-A-750	1.075	Aluminium	51
15.00 - 22.00	19	180	180	180	51	180	TT 19 – SQB-(***)-B-180	1.10	Brass	51
17.7 - 26.50	20	180	220	180	42	180	TT 20 – SQH-(***)-A-180	1.10	Aluminium	51
22.33 - 40.0	21	180	320	180	28	180	TT 21 – SQB-(***)-B-180	1.10	Brass	51
26.5 - 40.00	22	180	260	180	34	180	TT 22 – SQH-(***)-A-180	1.10	Aluminium	51

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

TT 16 — S — Q — B — 402 — 402 — C — 17

SECONDARY WAVEGUIDE SIZE
USE THE BRITISH WG SIZE FOR RECTANGULAR WAVEGUIDE or THE MIL SPEC. WRD SIZE FOR DOUBLE RIDGE WAVEGUIDE E.g. 17 = WAVEGUIDE SIZE WG17

MATERIAL
A= ALUMINIUM
B= BRASS
C= COPPER

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

FLANGE FOR PRIMARY WAVEGUIDE
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 FOR BRASS/ COPPER)
H = CHROMATE
F = IRIDITE
A = TIN (OPTIONAL, FOR BRASS/COPPER)
B = SILVER (STANDARD FOR BRASS/COPPER)

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

TYPE
P = PRECISION
S = STANDARD (RECTANGULAR WG ONLY)

PRIMARY WAVEGUIDE SIZE
USE THE BRITISH WG SIZE FOR RECTANGULAR WAVEGUIDE or THE MIL SPEC. WRD SIZE FOR DOUBLE RIDGE WAVEGUIDE
E.g. 16= WAVEGUIDE SIZE WG16
750 = WRD750

PRODUCT CODE
TT= TAPER TRANSITION

Notes:

1) The flange should suit the material of the device to remain standard

