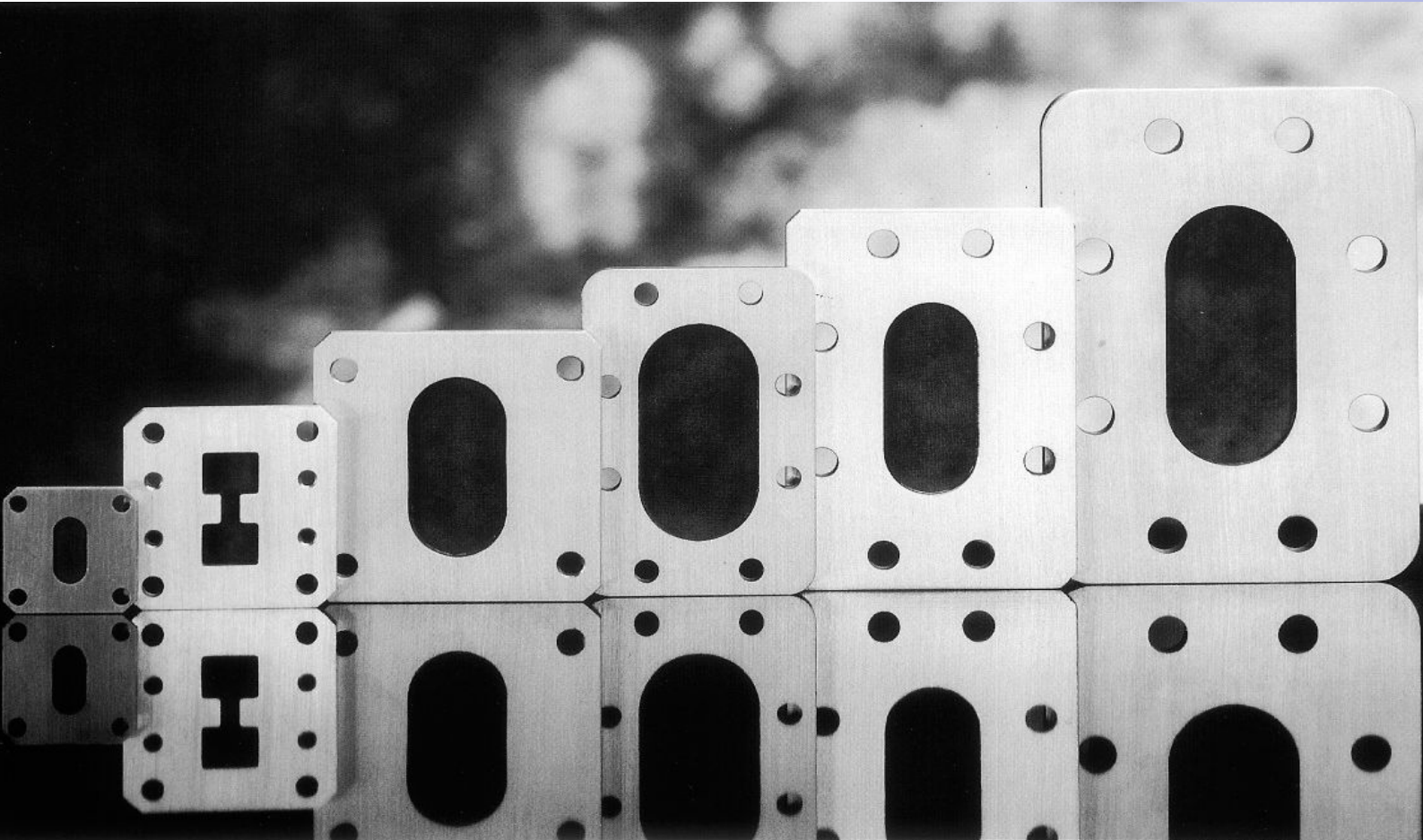




The Waveguide Solution

Waveguide Pressure Windows

Pressure Windows RW SERIES



The Waveguide Solution pressure windows incorporate a seal of glass reinforced PTFE. All windows are pressure tested to 40 psi. The bodies can be made of brass or aluminium. Various Finishes can be applied (see ordering instructions). Standard windows have plain faces without a sealing groove and can be supplied to mate with most common flange outlines. Windows for standard rectangular waveguide sizes have a VSWR better than 1.10:1 over the full waveguide bandwidth, or 1.05:1 over a 50% bandwidth. Double Ridge sizes have a VSWR better than 1.10:1 over an octave bandwidth, or 1.15:1 over the full frequency band. The Waveguide Solution facility is approved to ISO 9001: 2000.

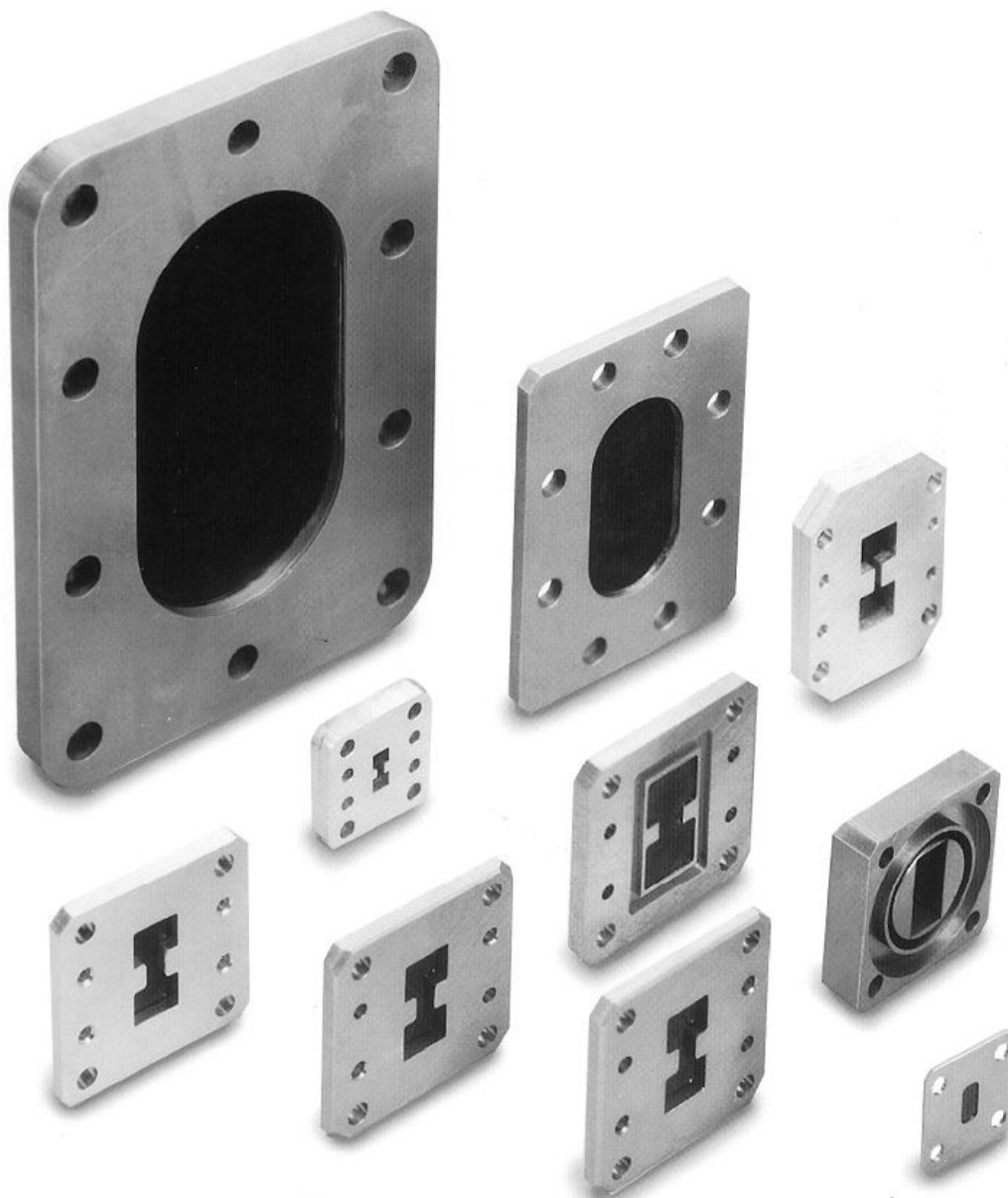


The Waveguide Solution

Pressure Windows enable the Pressurization of waveguide to eliminate moisture and improve power-handling capability.

Standard products also include Inlet Sections, Air Inlet Flanges and Hardware Kits.

Contact our Sales Department for more information.



PRESSURE WINDOWS

Standard Rectangular

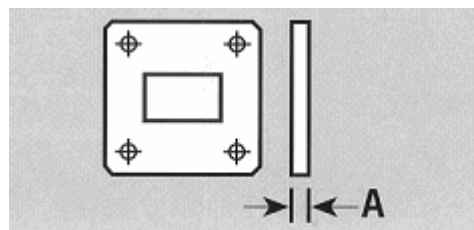
Specification:

Body Material: Brass

Window Material: PTFE

Finish: Unplated

Pressure: 40psi Maximum



Operating Frequency Band (GHz)	Waveguide Designation			TWS PART NUMBER	Max V.S.W.R.	Power Average (cw) KW max	Power Peak KW max	Thickness "A" (mm)
	UK WG	IEC R	E.I.A. WR					
2.60 – 3.95	10	32	284	RW 10 –SZZ- (**-**-**)-B-(**)	1.1	2.0	2,000	7.2
3.30 – 4.90	11A	40	229	RW 11A –SZZ- (**-**-**)-B-(**)	1.1	2.0	2,000	6.15
3.95 – 5.85	12	48	187	RW 12 –SZZ- (**-**-**)-B-(**)	1.1	1.5	1,500	4.8
4.90 – 7.05	13	58	159	RW 13 –SZZ- (**-**-**)-B-(**)	1.1	1.3	1,300	4.0
5.85 – 8.20	14	70	137	RW14 –SZZ- (**-**-**)-B-(**)	1.1	1.0	1,000	3.4
7.05 – 10.0	15	84	112	RW 15 –SZZ- (**-**-**)-B-(**)	1.1	0.8	800	2.8
8.20 – 12.40	16	100	90	RW 16 –SZZ- (**-**-**)-B-(**)	1.1	0.5	500	2.3
10.0 – 15.0	17	120	75	RW 17 –SZZ- (**-**-**)-B-(**)	1.1	0.3	300	1.9
12.4 – 18.0	18	140	62	RW 18 –SZZ- (**-**-**)-B-(**)	1.1	0.15	150	1.5
18.0 – 26.5	20	220	42	RW 20 –SZZ- (**-**-**)-B-(**)	1.15	0.1	100	1.1
26.5 – 40.0	22	320	48	RW 22 –SZZ- (**-**-**)-B-(**)	1.15	0.06	60	0.76

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

Double Ridge

Specification:

Body Material: Aluminium Alloy

Window Material: PTFE

Finish: Iridite / Chromate

Pressure: 40psi Maximum

Operating Frequency Band (GHz)	Waveguide Designation	TWS PART NUMBER	Max V.S.W.R.	Power Average (cw) KW max	Power Peak KW max	Thickness "A" (mm)
5.8 – 16.0	WRD580 D28	RW 580 –SZH- (**)-A	1.15	250	20	3.3
6.5 – 18.0	WRD650 D28	RW 650 –SZH- (**)-A	1.20	250	20	3.2
7.5 – 18.0	WRD750 D24	RW 750 –SZH- (**)-A	1.15	250	20	3.2

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

Ordering Information

RW 16 — S — Z — Z — 402 — B

WAVEGUIDE SIZE

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

PRODUCT CODE

RW = PRESSURE WINDOW

TYPE

S = STANDARD

PAINT

Z = UNPLATED (STANDARD FOR BRASS MATERIAL)

FINISH

Z = UNPLATED (STANDARD FOR BRASS MATERIAL)
H = CHROMATE
F = IRIDITE
A = TIN (OPTIONAL FOR BRASS MATERIAL)
B = SILVER (OPTIONAL FOR BRASS MATERIAL)

FLANGE X

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

MATERIAL

A= ALUMINIUM (STANDARD FOR DOUBLE RIDGE WAVEGUIDE)
B= BRASS (STANDARD FOR RECTANGULAR WAVEGUIDE)

Notes:

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

For assistance selecting RoHS options please contact the factory



The Waveguide Solution

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Specifications shown on this document are offered as a guide only. Components may be modified to suit the mechanical or electrical parameters requested, or may be optimized to suit the operating frequency range. Frequency range of operation shall be advised when ordering.

Information provided in this brochure is for reference only. Dimensions or specifications are typical values. All designs, specifications and availabilities of products and services presented in this document may be subject to change without notice. For confirmation of details please consult your agent or manufacturer. Issue 1.0b