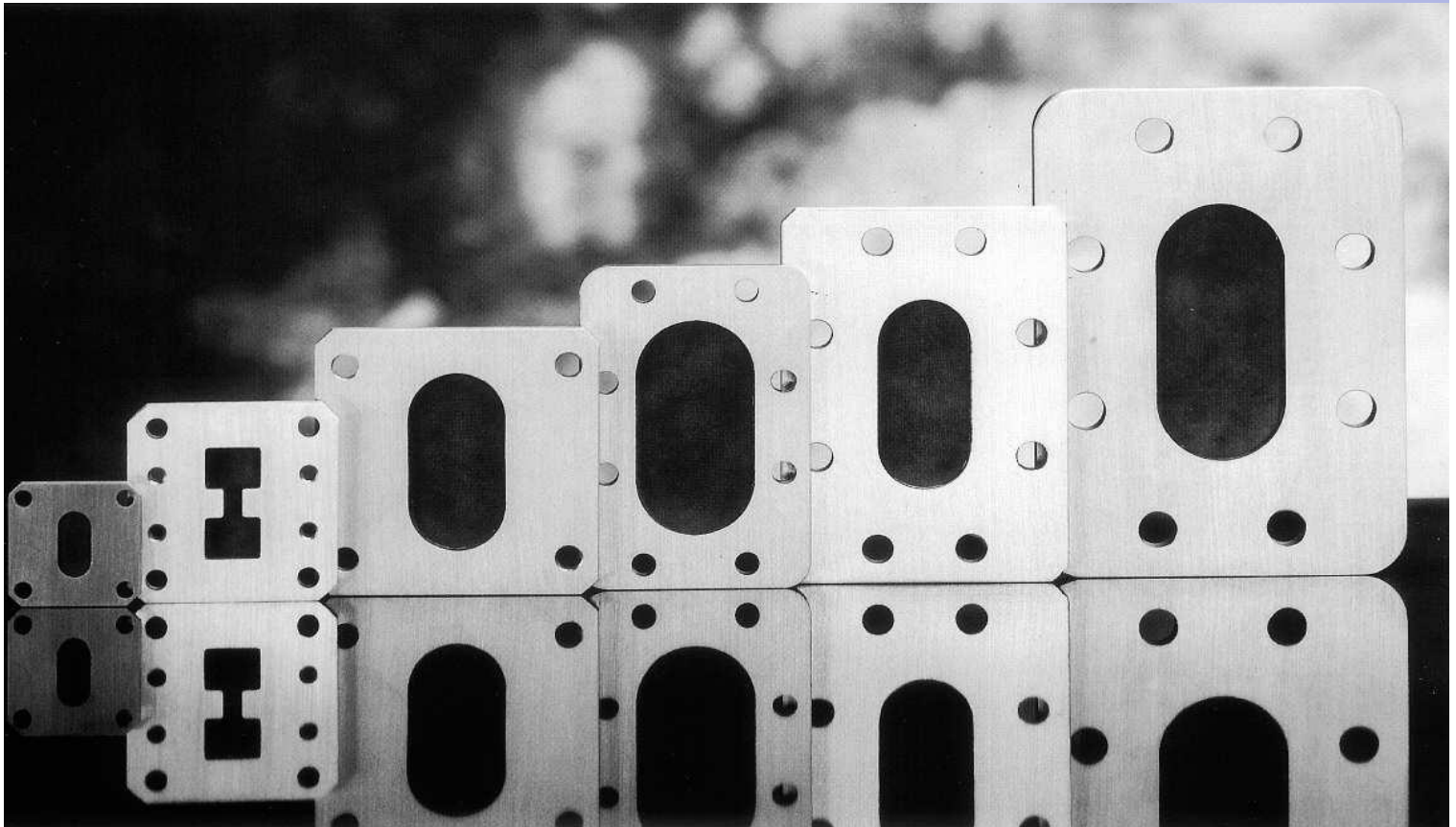




## The Waveguide Solution

# 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.

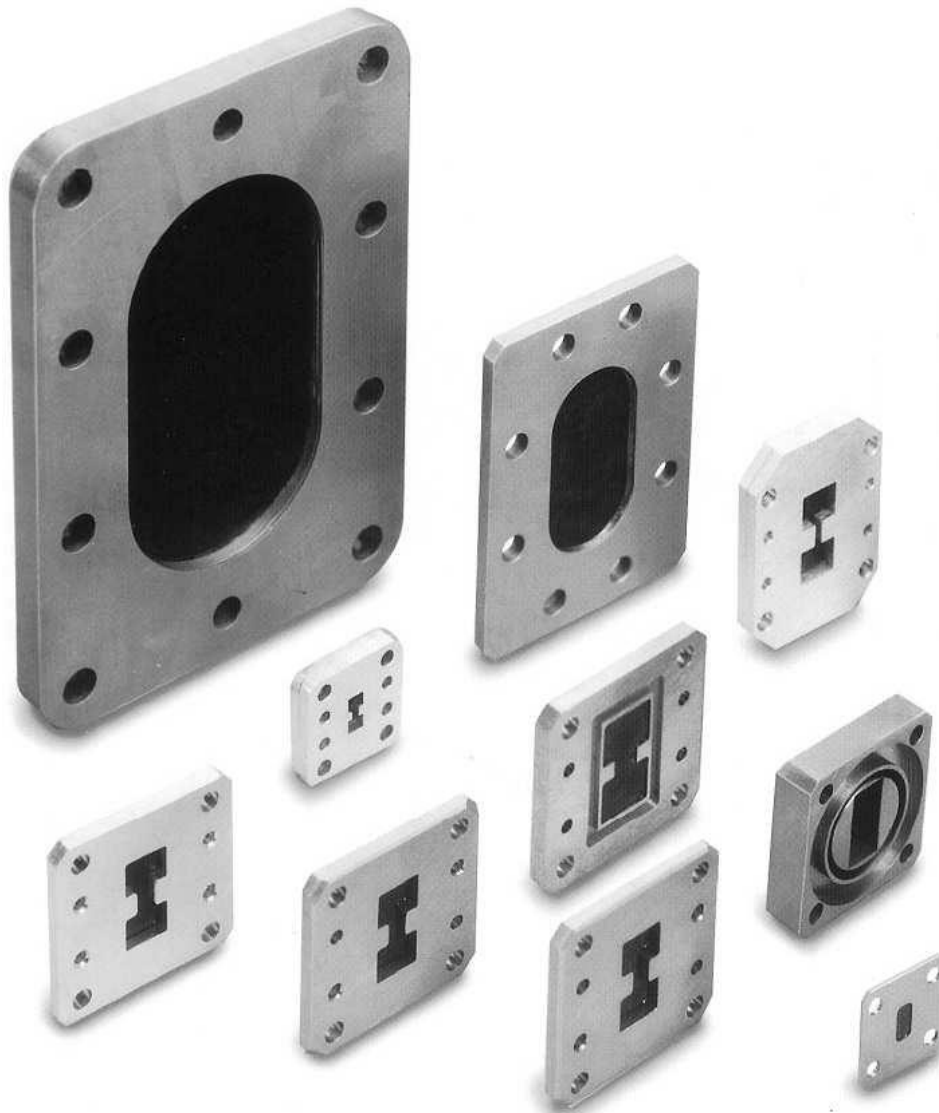


## The Waveguide Solution

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.**

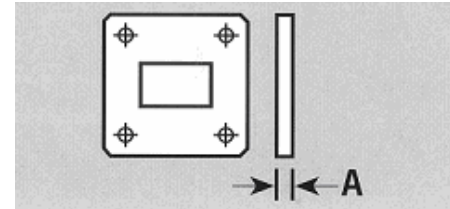


## PRESSURE WINDOWS

### 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	RW 14 –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

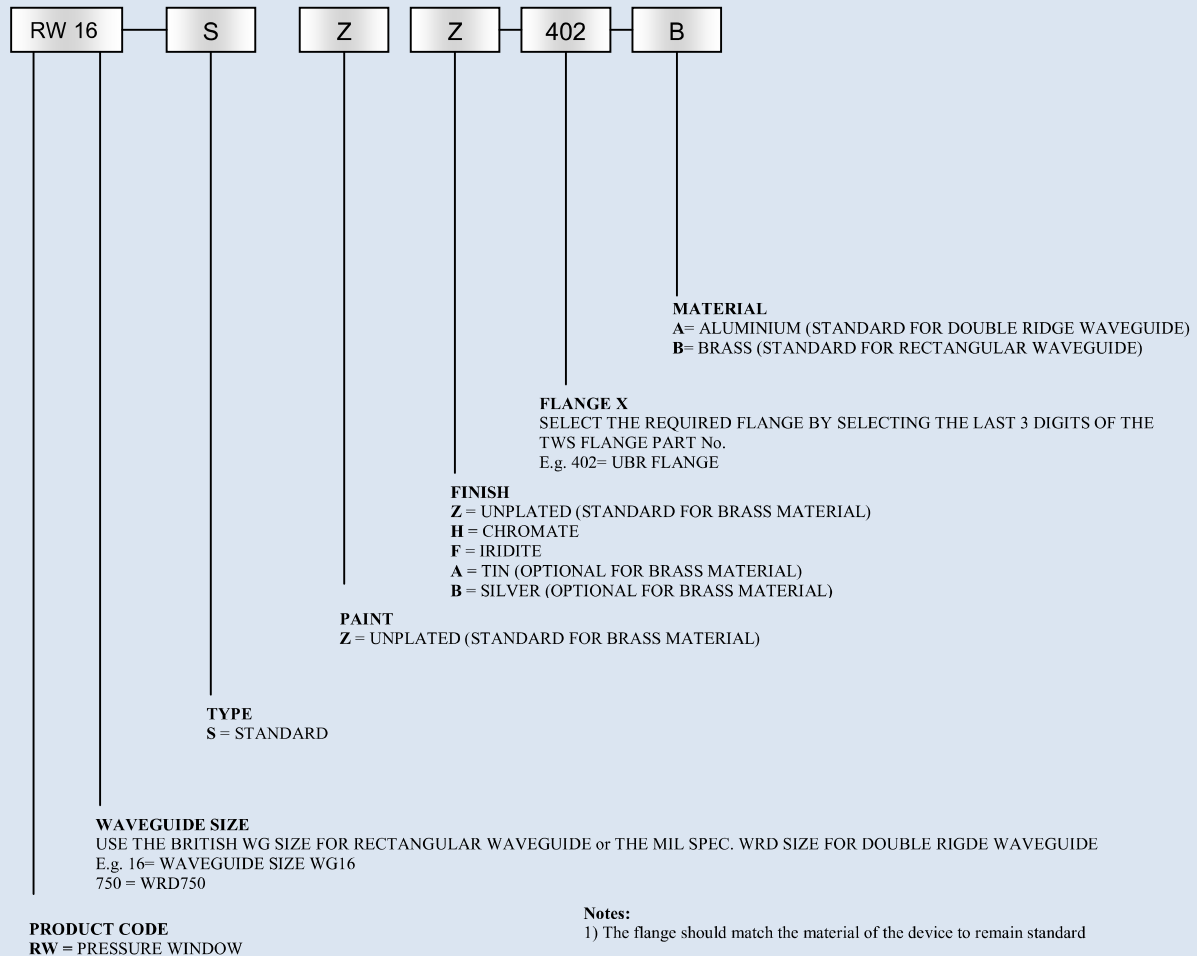
Specification:

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



For assistance selecting RoHS options please contact the factory



## The Waveguide Solution

### The Waveguide Solution Limited

King Charles Business Park • Old Newton Road • Heathfield • Newton Abbot  
Devon TQ12 6UT • United Kingdom

T: +44 (0) 1626 835255

F: +44 (0) 1626 836166

E-mail: [enquiries@waveguidesolution.co.uk](mailto:enquiries@waveguidesolution.co.uk)  
[www.waveguidesolution.co.uk](http://www.waveguidesolution.co.uk)

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 1.0a