

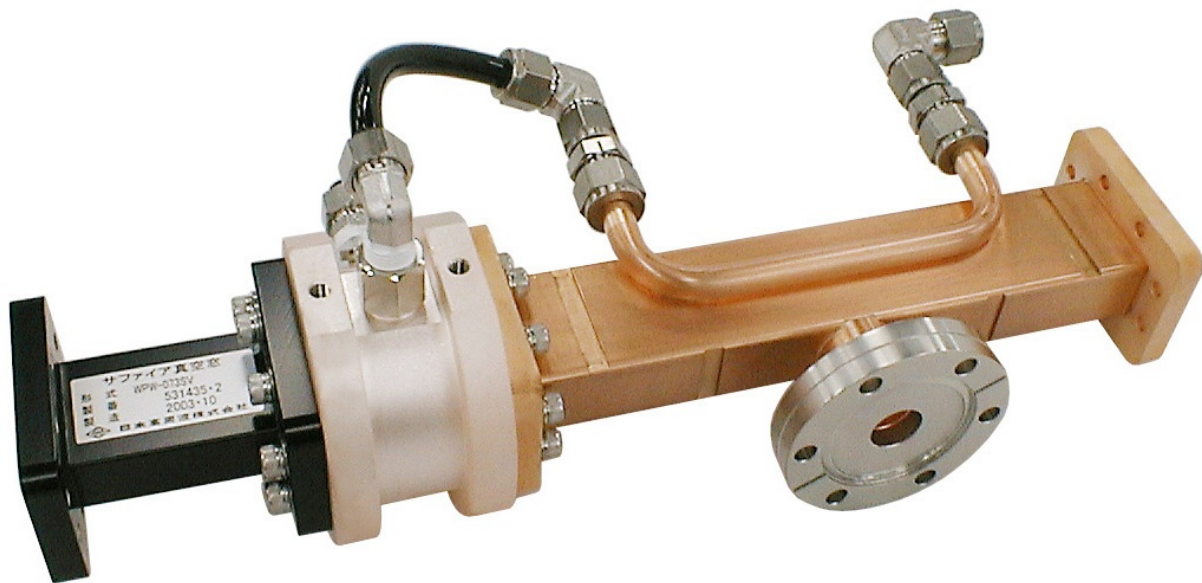
X-Band Sapphire Vacuum Window

Type : WPW-073SV

Nihon Koshuha has developed Sapphire Vacuum Windows for high power up to 20kW 60sec. It is mainly used for Nuclear Fusion.

Circular Sapphire Plate is metalized and assembled in the housing by means of vacuum brazing.

Verified 20kW 60sec. RF power test



Specifications

Frequency	8.2GHz \pm 0.05GHz
VSWR	1.07max.
Insertion Loss	0.05dB max.
RF Power	20kW 60 seconds
Material of Window	Sapphire
Waveguide	WR-137(EIA)
Flange	CPR-137G(EIA)
Vacuum Port	1CF 70
Pressure in Waveguides	Atmosphere Side: 0.05MPa(SF6)
	Vacuum Side : He leak 1.3×10^{-9} Pa \cdot m ³ /sec
Cooling Water	Flow Rate : 3L/min.
	Water Pressure : 0.8MPa
	Water Quality : Purified Water or Tap Water
Length	348mm



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