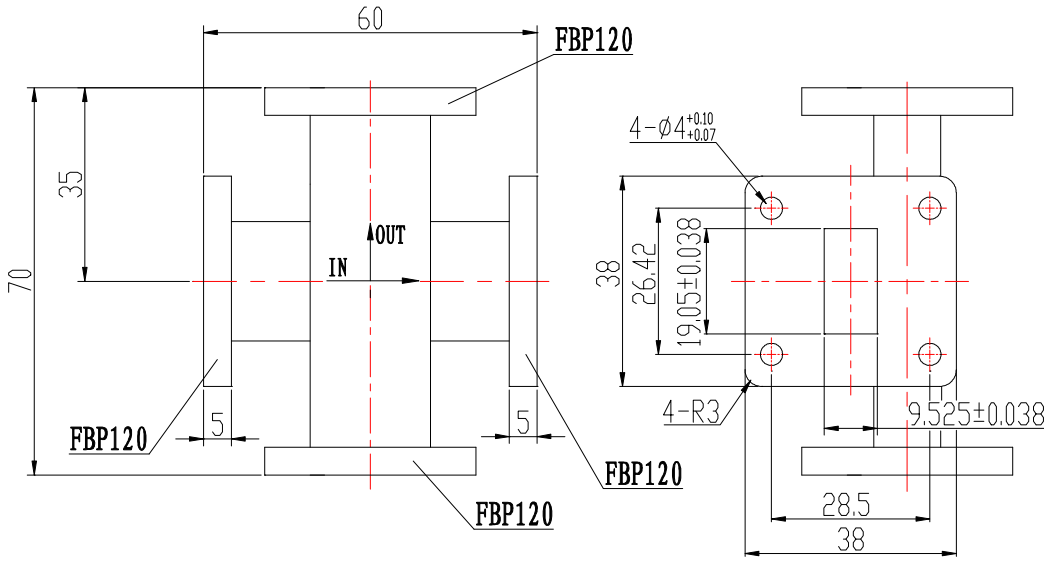


Crossguide Directional Coupler

Part No: VT120W+C20/30/40PPPPC

1.0 Mechanical Specifications				
1.1	Waveguide Type	WR75		
1.2	Flange Type	FBP120 (Cover)		
1.3	Material	Copper/Brass		
1.4	Inside Finish	Silver plating		
1.5	Outside Finish	Anticorrosion black paint		
1.6	Temperature Range	-40°C ~ +70° C		
2.0 Electrical Specifications				
Part No		VT120W+C20PPPPC	VT120W+C30PPPPC	VT120W+C40PPPPC
2.1	Frequency Range	10-15GHz		
2.2	Operating Bandwidth (%)	Up to 20% of waveguide center frequency		
2.3	VSWR (Max)	1.1:1 (Main line); 1.15:1 (Secondary line)		
2.4	Coupling	20 ± 0.7dB	30 ± 1.0 dB	40 ± 1.5 dB
2.5	Frequency Sensitivity (Max)	± 1.0 dB	± 1.0 dB	± 1.0dB
2.6	Directivity (Min)	20 dB	20 dB	18 dB
3.0 Outline Drawings				
 <p>The drawing shows two views of the coupler. The left view is a front view showing a central vertical section with 'IN' and 'OUT' ports. Dimensions include a total width of 60, a height of 70, and a central section height of 35. The right view is a side view showing a rectangular profile with a height of 38 and a width of 38. It features four mounting holes with a diameter of $4-\phi 4^{+0.10}_{+0.07}$ and a distance of 26.42 between the centerlines of the top two holes. The distance between the centerlines of the bottom two holes is 19.05 ± 0.038. The distance from the bottom edge to the centerline of the bottom holes is 9.525 ± 0.038. The bottom edge has a radius of 4-R3. The total width of the bottom flange is 28.5, and the distance between the centerlines of the bottom holes is 38.</p>				



Revision History

Date	Revision	Changes
05-Mar-2006	1	First release

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Email: sales@vectortele.com

www.vectortele.com

Vector Telecom Pty Ltd

Level 40, 140 William Street, Melbourne VIC 3000, Australia
Tel: +61 3 9607 8357 - Fax: +61 3 9607 8282 - www.vectortele.com