

Electric Specification

Adapter Type	Right Angel
Adapter Grade	Standard
Frequency Band	K
Waveguide Type	Rectangular
Waveguide Size EI WR	WR42
Min. Frequency (GHz)	18
Max. Frequency (GHz)	26.5
VSWR Max	1.23
VSWR Min	1.0025
Impedance (Ω)	50
Max. Insertion Loss (dB)	0.25
Min. Insertion Loss (dB)	0.22

Interface

Flange Style	Square
Connector	3.5 mm
Connector Type	Female

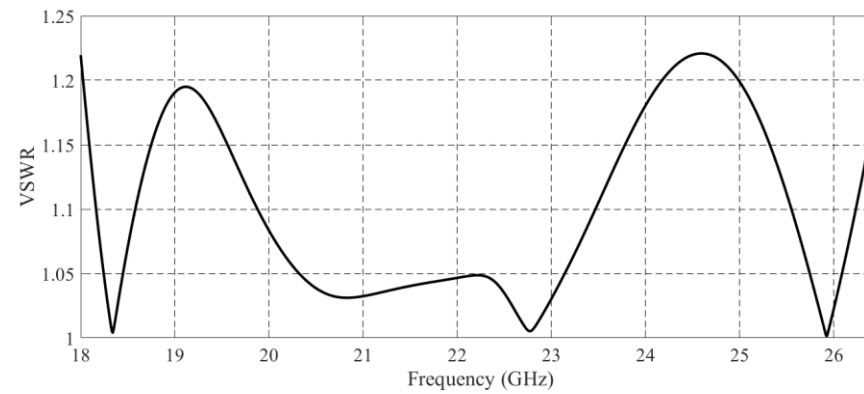
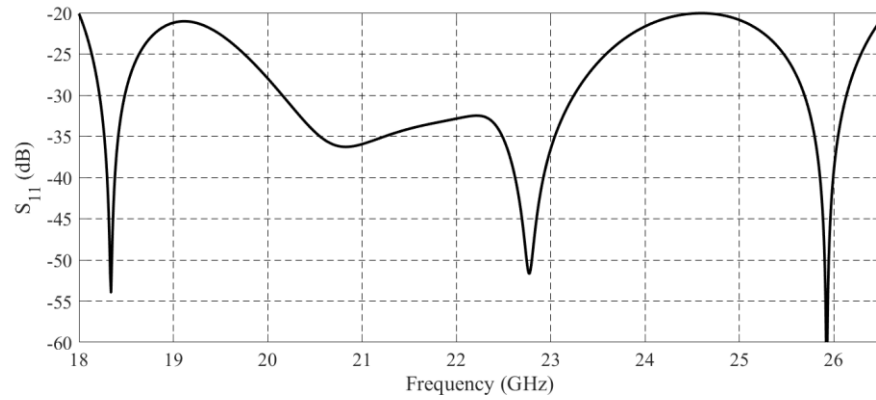
Mechanical Specification

Body Material	Al
Finishing	Gray Paint
Operating Temp Low($^{\circ}$ c)	-50
Operating Temp High($^{\circ}$ c)	80

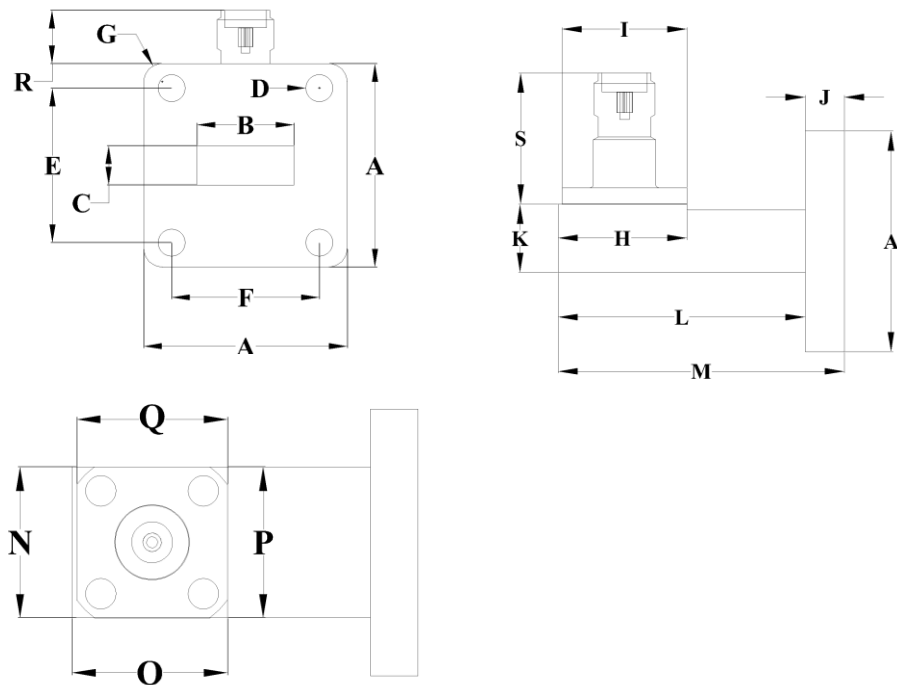


Overview

Right angle rectangular waveguide to coaxial adapter 42CTRW3.5, operating from 18 to 26.5 GHz with a 0.25dB insertion loss and low VSWR 1.25:1. 42CTRW3.5 can be an efficient transition between the rectangular waveguide WR42 and coaxial 3.5 female connector. It can handle 50W continuously and 3KW peak power. The flange of waveguide WR42 is FBP220 (UBR220). These waveguide to coaxial adapters is consistent with the CACIRA standard of high quality and are indispensable components in any microwave project, such as microwave testing, and systems.



Drawing



Parameter	Inch (mm)	Parameter	Inch (mm)
A	0.88 (22.4)	O	0.516(13.113)
B	0.42(10.668)	P	0.5 (12.7)
C	0.17(4.318)	Q	0.5(12.7)
D	0.118(3)	R	0.232(5.895)
E	0.67(17.02)		
F	0.640(16.26)		
G	0.078(2)		
H	0.515(13.098)		
I	0.5 (12.7)		
J	0.157(4)		
K	0.273(6.935)		
L	0.99(25.137)		
M	1.141(29)		
N	0.511 (13)		
S	0.524(13.32)		