

FLEXIBLE WAVEGUIDE

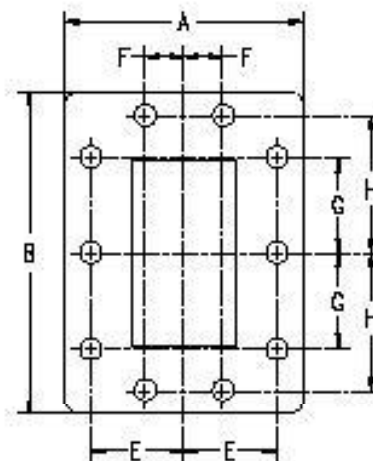
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1.0 Mechanical Specifications		
1.1	Waveguide type	Flexible Twistable Waveguide WR650
1.2	Flange type	CPRG, CPRF, COVER, CHOKE available
1.3	Flange Holes	Through
1.4	Basis-material	Aluminum, Brass, Alloyed Cuprum, Stainless
1.5	Outer material	Neoprene rubber jacketed
1.6	Internal Body Finish	Silver Plated chromate or conversion
1.7	External Body Finish	Body painted with gray/black epoxy enamel
1.8	External Body Finish	Body painted with gray/black epoxy enamel

2.0 Environment specifications		
2.1	Operation Temp.	-54°C--+85°C
2.2	Storage Temp.	-60°C--+125°C
2.3	Altitude	40000 ft
2.4	Vibration	12.5g rms (15 degree 2KHz)
2.5	Humidity	100% RH at 35c, 95%RH at 50 deg c
2.6	Shock	20G for 11msc

3.0 Electrical Specifications		
3.1	Frequency Range	1.12-1.70GHz
3.2	Insertion Loss	0.1dB / m
3.3	Power CW / Peak	1500 Watts / 3.0M Watts
3.4	Max. VSWR	1.20:1

	WR650	WG6	R14
UG417A/U (without groove)			
Dimension	inches	mm	
A	5.440	138.18	
B	8.690	220.73	
E	2.310	58.69	
F	1.250	31.73	
G	2.370	60.30	
H	3.940	100.00	
Hole Diameter	0.330 ¹	8.20	



MAX RETURN LOSS (dB)			MIN. CENTRELINE BENDING RADII				MAX. TWIST	
			STATIC	STATIC	REPEAT	REPEAT	STATIC	REPEAT
300mm	600mm	1000mm	E-PLANE	H-PLANE	E-PLANE	H-PLANE	deg/m	deg/m
30.2	27.7	27.2	97	197	397	797	52°	51°

Table 4. FLEXIBLE WAVEGUIDE - STANDARD LENGTHS (mm)

100	200	300	400	500	600	800	900	1000	1200	1500
A	B	C	D	E	F	G	H	I	J	K
◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

◆ Available unjacketed or with bonded silicone jacket
○ Available unjacketed or in elastomer sleeving

Part Number: RF WF 650 CF AL S E B

RF-Lambda Waveguide Flexible Waveguide Waveguide Type Number

Flange Type: CG=CPRG; CF=CPRF; CO=COVER; CK=CHOKE
Material: AL=Aluminum; BS=Brass; AC=Alloyed Cuprum; SS=Stainless
S=STATIC; R=REPEAT
PLANE TYPE: E=E-PLANE; H=H-PLANE
Length: A=100mm; B=200m (Refer Table 4)

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	RF-LAMBDA RFLPC
	CAD MODEL REVISION 065-23
	ASSEMBLY REVISION VS1124
	ASSEMBLY NAME RFLVRO2K
	DRAWING NUMBER D056-2
www.rflambda.com	RF-LAMBDA
SIZE LT	SHEETS 1 OF 1