

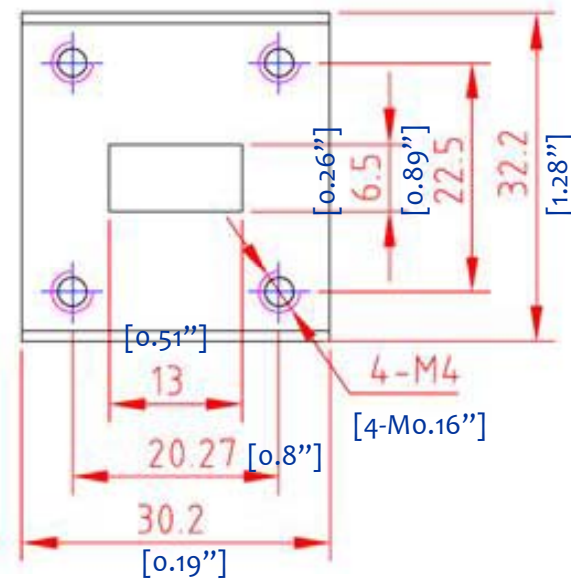
# FLEXIBLE WAVEGUIDE

--- RFWF51

1.0 Mechanical Specifications	
1.1	Waveguide type Flexible Twistable Waveguide WR51
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 15-22GHz
3.2	Insertion Loss 1.2dB / m
3.3	Power CW / Peak 500 Watts / 0.1M Watts
3.4	Max. VSWR 1.20:1



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	365°	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 W F 51 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  
**PLANE TYPE:** E=E-PLANE; H=H-PLANE  
**Length:** A=100mm; B=200m (Refer Table 4)

PAGE 1 OF 1	DATE Apr 1 <sup>st</sup> 2008
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 <b>RFWF51 FLEXIBLE WAVEGUIDE</b>	RF-LAMBDA RFPC
www.rflambda.com	CAD MODEL REVISION 065-23
RF-LAMBDA	ASSEMBLY REVISION VS1124
SIZE LT	ASSEMBLY NAME RFLVRO2K
SHEETS	DRAWING NUMBER D056-2
1 OF 1	