

# FLEXIBLE WAVEGUIDE

# --- RFWF112

1.0	Mechanical Specifications	
1.1	Waveguide type	Flexible Twistable Waveguide WR112
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

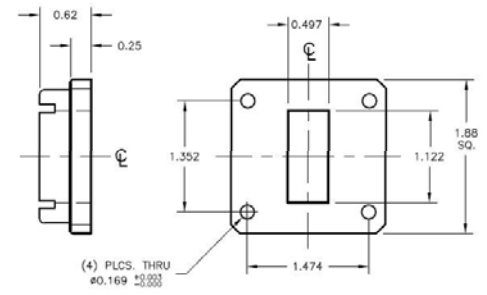
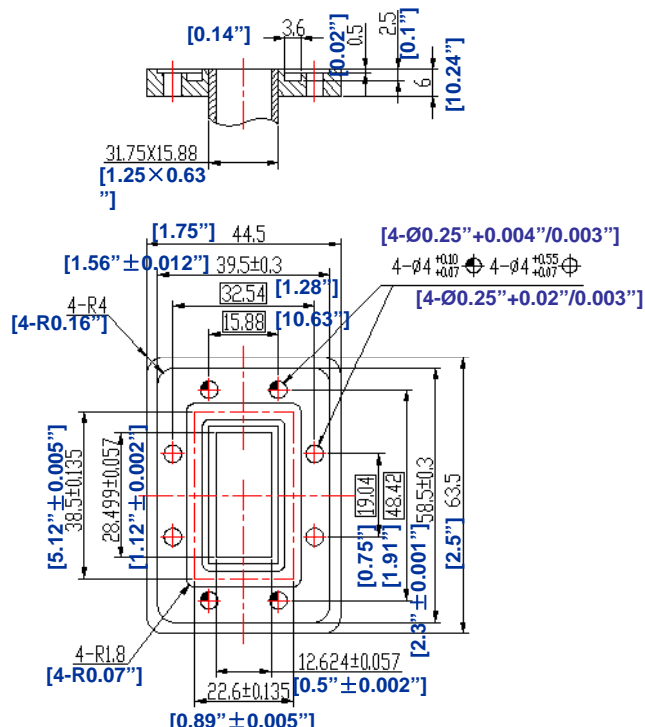
2.0	Environment specifications	
2.1	Operation Temp.	-54°C--85°C
2.2	Storage Temp.	-60°C--125°C
2.3	Altitude	40000 ft
2.4	Vibration	12.5g rms (15 degree 2KHz)
2.5	Humidity	100% RH at 35c, 95%RH at 50 deg c
2.6	Shock	20G for 11msc

3.0	Electrical Specifications	
3.1	Frequency Range	6.58-10GHz
3.2	Insertion Loss	0.3dB / m
3.3	Power CW / Peak	1000 Watts / 0.3M Watts
3.4	Max. VSWR	1.20:1

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

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	253°	51°



**Part Number:** **RF W F 112 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)

PAGE 1 OF 1	DATE Apr 1 <sup>st</sup> 2008
PROPRIETARY INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF RF-LAMBDA EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITINGS BY RF-LAMBDA. THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN THE WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION OF ALL THIRD PARTIES AND SHALL USE SAME FOR OPERATING AND MAINTENANCE PURPOSES ONLY	DESIGN RFWF
	RF-LAMBDA RFWF
	CAD MODEL REVISION 065-23
	ASSEMBLY REVISION VS1124
	ASSEMBLY NAME RFLVRO2K
	DRAWING NUMBER D0562
www.rflambda.com	RF-LAMBDA
SIZE LT	SHEETS 1 OF 1