

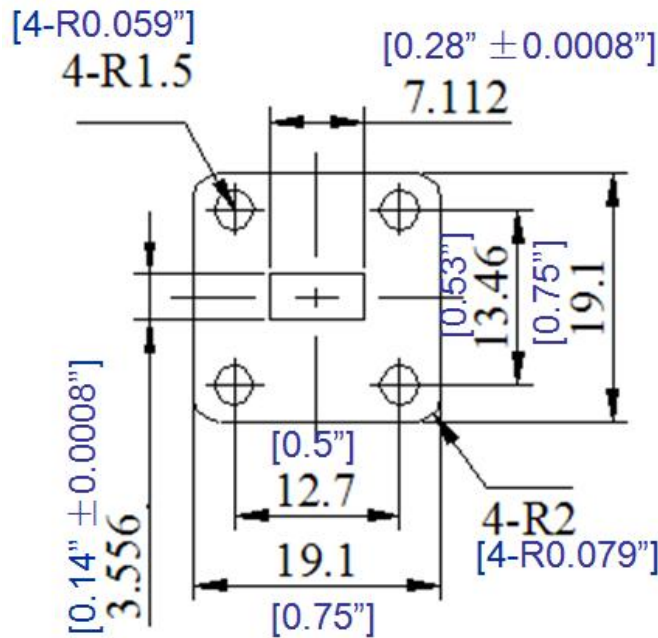
FLEXIBLE WAVEGUIDE

--- RFWF28

1.0 Mechanical Specifications	
1.1	Waveguide type Flexible Twistable Waveguide WR28
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 26.5-40GHz
3.2	Insertion Loss 2.1dB / m
3.3	Power CW / Peak 750 Watts / 0.02M Watts
3.4	Max. VSWR 1.25:1



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	908°	51°


Table 4. FLEXIBLE WAVEGUIDE - STANDARD LENGTHS (mm)

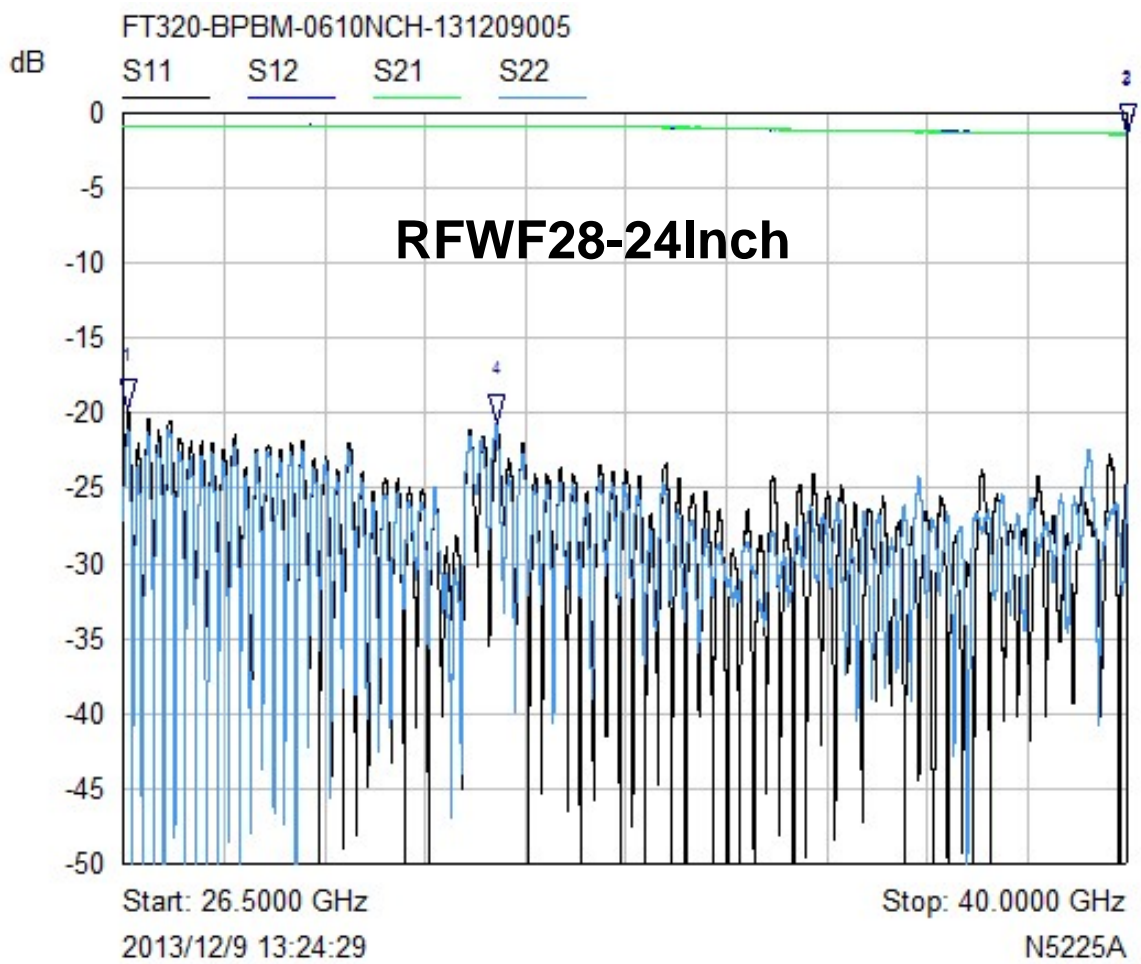
100	200	300	400	500	600	800	900	1000	1200	1500
A	B	C	D	E	F	G	H	I	J	K
◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

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

Part Number: **RF W F 28 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 st 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 RFPC
	RF-LAMBDA RFPC
RFWF28 FLEXIBLE WAVEGUIDE	CAD MODEL REVISION 065-23
www.rflambda.com	ASSEMBLY REVISION VS1124
RF-LAMBDA	ASSEMBLY NAME RFLVr02K
SIZE LT	DRAWING NUMBER D056-2
SHEETS 1 OF 1	




Part Number: **RF W F 28 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)

Mkr	Trace	X-Axis	Value	Notes
1	S11	26.5493 GHz	-19.85 dB	
2	S12	39.9973 GHz	-1.46 dB	
3	S21	40.0000 GHz	-1.48 dB	
4	S22	31.5051 GHz	-20.75 dB	

PAGE 1 OF 1	DATE Apr 1 st 2008
<small>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</small>	DESIGN RFFC
	RF-LAMBDA RFFC
	CAD MODEL REVISION 065-23
	ASSEMBLY REVISION VS1124
 RFFWF28 FLEXIBLE WAVEGUIDE	ASSEMBLY NAME RFLVR02K
	DRAWING NUMBER D0562
www.rflambda.com	
RF-LAMBDA	SIZE LT SHEETS 1 OF 1