

FLEXIBLE WAVEGUIDE

--- RFWF42

1.0 Mechanical Specifications	
1.1	Waveguide type Flexible Twistable Waveguide WR42
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

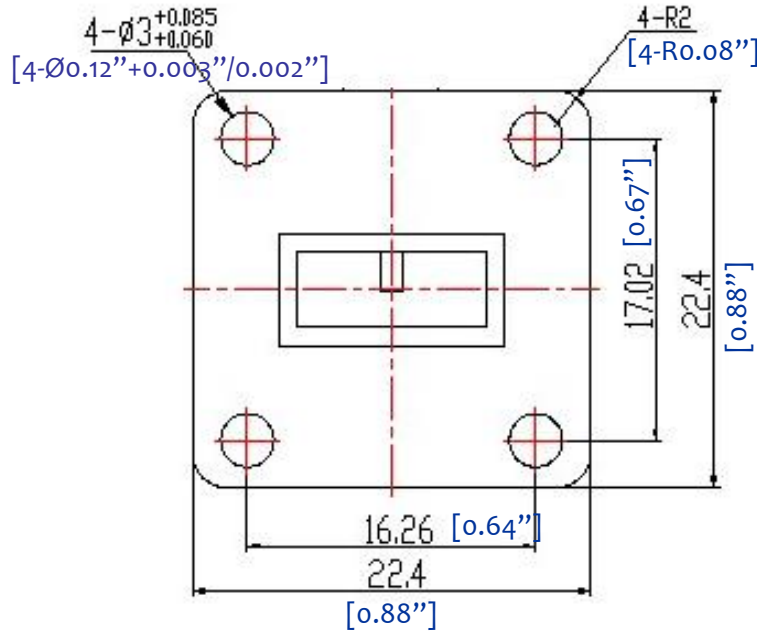
2.0 Environment specifications	
2.1	Operation Temp. -54°C--+85°C
2.2	Storage Temp. -60°C--+125°C
2.3	Altitude 40000 ft
2.4	Vibration 12.5g rms (15 degree 2KHz)
2.5	Humidity 100% RH at 35c, 95%RH at 50 deg c
2.6	Shock 20G for 11msc

3.0 Electrical Specifications	
3.1	Frequency Range 18-26.5GHz
3.2	Insertion Loss 1.2dB / m
3.3	Power CW / Peak 100 Watts / 0.04M Watts
3.4	Max. VSWR 1.25:1

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

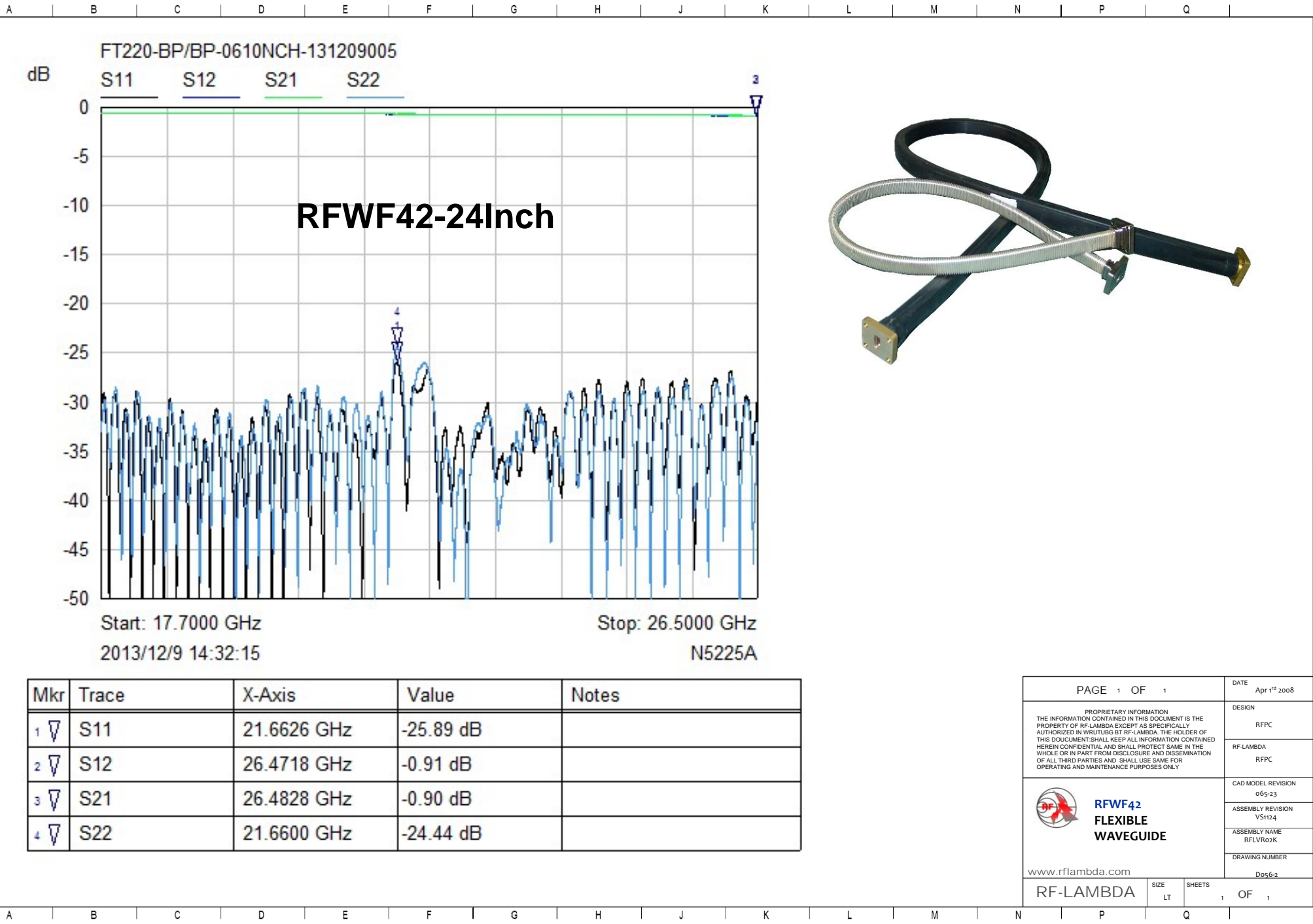


MAX RETURN LOSS (dB)			MIN. CENTRELINE BENDING RADII				MAX. TWIST	
			STATIC	STATIC	REPEAT	REPEAT	STATIC	REPEAT
300mm	600mm	1000mm	E-PLANE	H-PLANE	E-PLANE	H-PLANE	deg/m	deg/m
30.2	27.7	27.2	97	197	397	797	627°	51°


Part Number: **RF W F 42 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)

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	RF-LAMBDA RFPC
	CAD MODEL REVISION 065-23
	ASSEMBLY REVISION VS1124
	ASSEMBLY NAME RFLVR02K
	DRAWING NUMBER D056-2
www.rflambda.com	
RF-LAMBDA	SIZE LT SHEETS 1 OF 1



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	21.6626 GHz	-25.89 dB	
2 ▾	S12	26.4718 GHz	-0.91 dB	
3 ▾	S21	26.4828 GHz	-0.90 dB	
4 ▾	S22	21.6600 GHz	-24.44 dB	

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