RF-LAMBDA
THE LEADER OF RF BROADBAND SOLUTIONS

RFC214W1000M805D

1KW High Power Circulator
780 ~ 830MHz

Note: The photo is for illustration purposes only.
Please refer to outline drawing

Features

- High power handling up to 1KW
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and military applications
- Wireless Infrastructure
- Test and Measurement

Electrical Specifications, T_A=25 ℃

Parameter	Min.	Typ.	Max.	Units
Frequency Range	780-830			MHz
Insertion Loss			0.5	dB
Isolation (Note 1)	19			dB
VSWR			1.25	:1
Power handling (CW)			1	KW
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	-			
Case Material	Aluminum Alloy			
Impedance	50			Ω

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss
Bandwidth (5 ~10) % x Center Frequency (Isolation >23dB)
Bandwidth (20~30) % x Center Frequency (Isolation >21dB)
Bandwidth (40~60) % x Center Frequency (Isolation >19dB)
Ask manufacturer for details

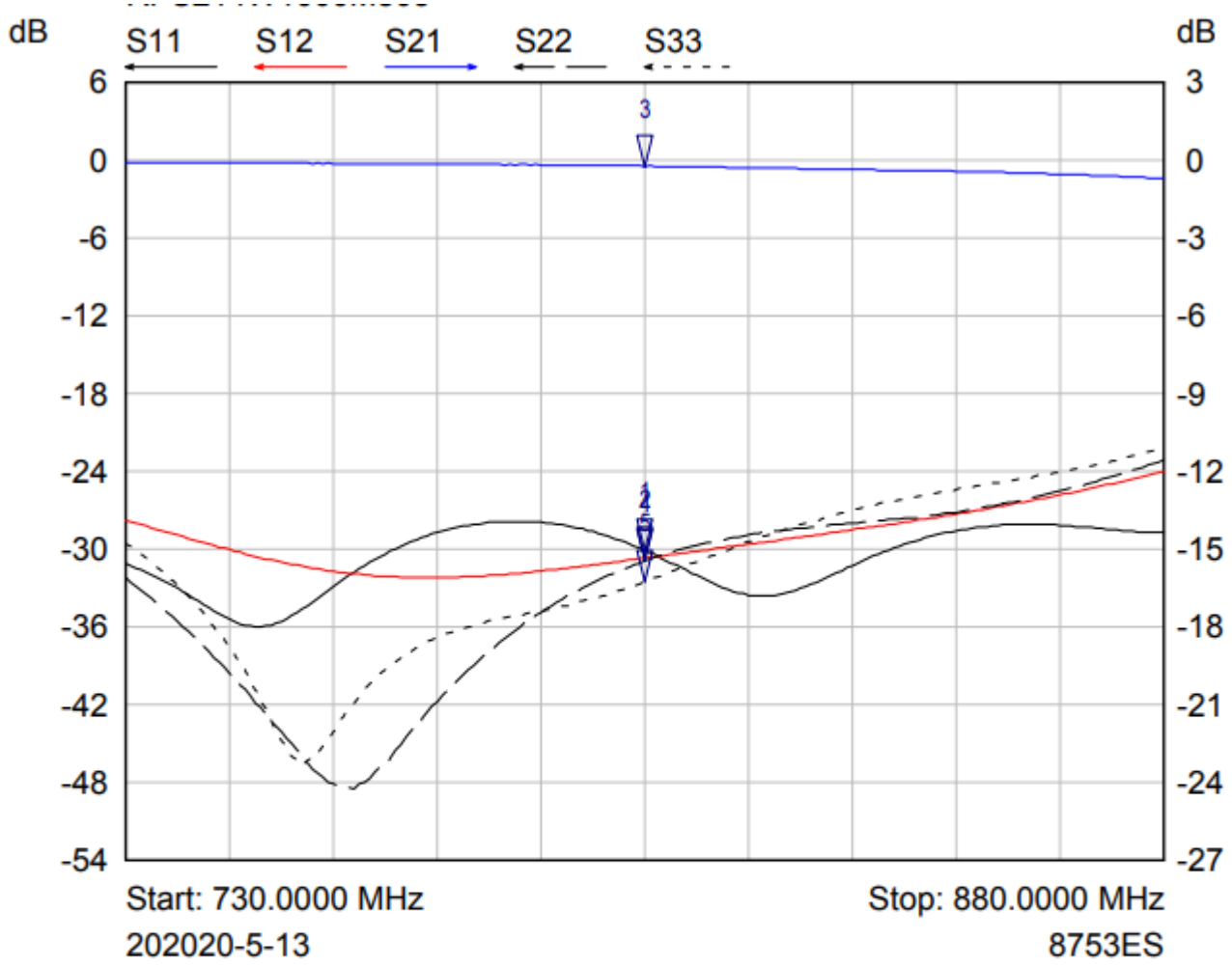
1KW High Power Circulator 780 ~ 830MHz

RF-LAMBDA USA www.rflambda.com
Sales: sales@rflambda.com Technical : support@rflambda.com

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20℃~+70℃ (Case Temperature)
Storage Temperature	-40℃~+85℃
Thermal Shock	-20℃ → +70℃ (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85℃ for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

Typical Performance Plots

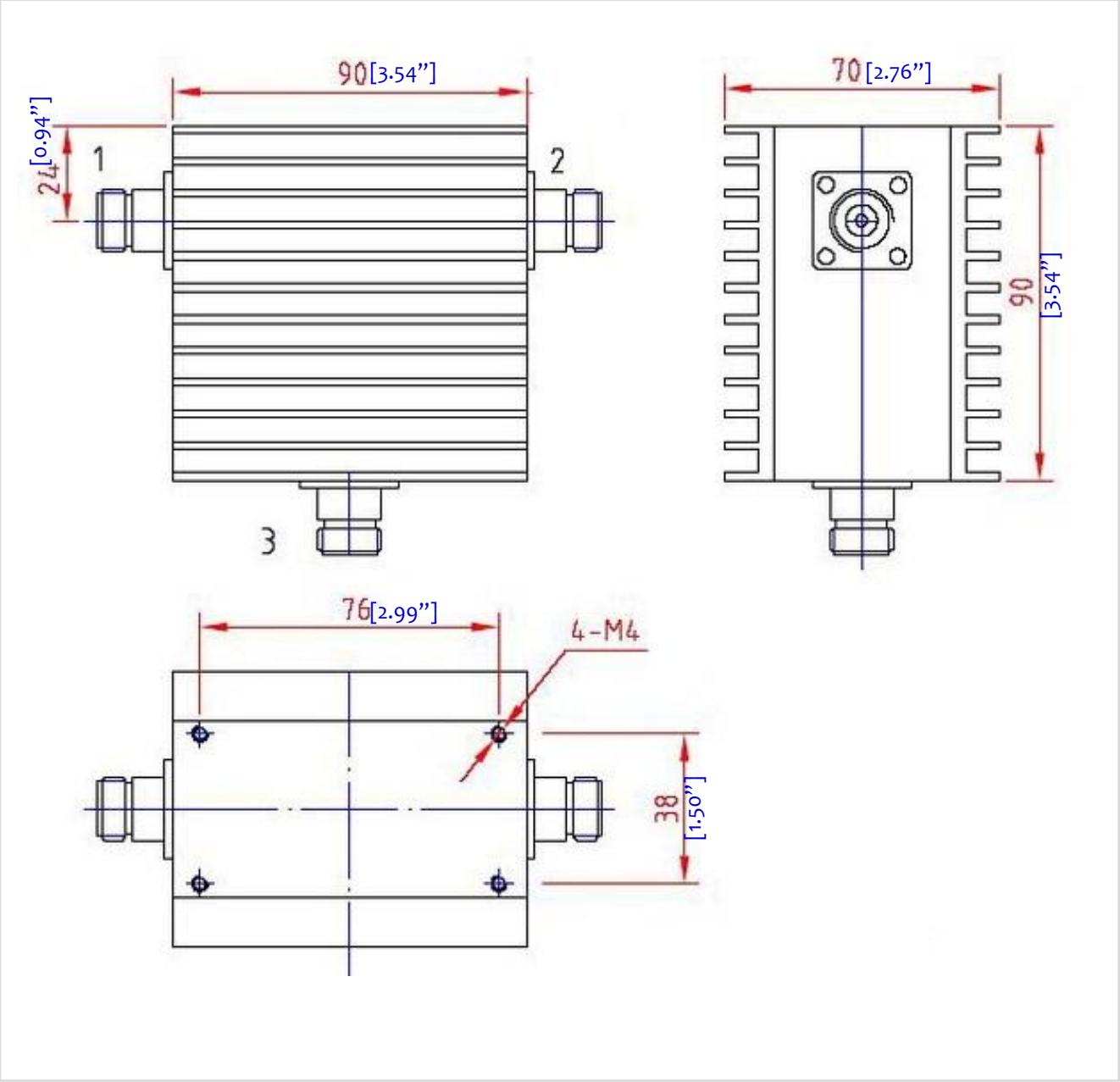


Mkr	Trace	X-Axis	Value	Notes
1	S11	805.0000 MHz	-30.11 dB	
2	S12	805.0000 MHz	-30.71 dB	
3	S21	805.0000 MHz	-0.23 dB	
4	S22	805.0000 MHz	-30.94 dB	
5	S33	805.0000 MHz	-32.53 dB	

Important Notice

Outline Drawing:

All Dimensions in mm [inches]



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