



## 500W Wide Band High Power Circulator 2.7~3.3GHz



- High power handle capability up to 500W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient ferrite material offer stable performance over temperature
- Aerospace and military application
- High peak to average handle capability
- All specifications can be modified upon request

Parameter	Min	Type	Max	Units
Frequency Range	2.7~3.3			GHz
Insertion Loss	0.3			dB
Isolation (Note 1)			20	dB
VSWR			1.25	:1
Forward Power (CW)			500	W
Reverse Power (CW)			500	W
Peak Power ( CW )			1200	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Impedance	50			$\Omega$
Input /Output Connector	N-Female			
Finishing	Nickel plating			
Case Material	Aluminum alloy			
Operational Temp.	-20		70	$^{\circ}\text{C}$
Storage Temp.	-40		85	$^{\circ}\text{C}$
Altitude	15000		TBD	ft.
Vibration	10g 15 degree 2KHz			RMS
Humidity	100% RH at 35c, 95%RH at 40 $^{\circ}\text{C}$			
Shock	20G for 11msc.			

Note 1: Unit has narrow frequency bandwidth can achieve higher isolation & low 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 >20dB)

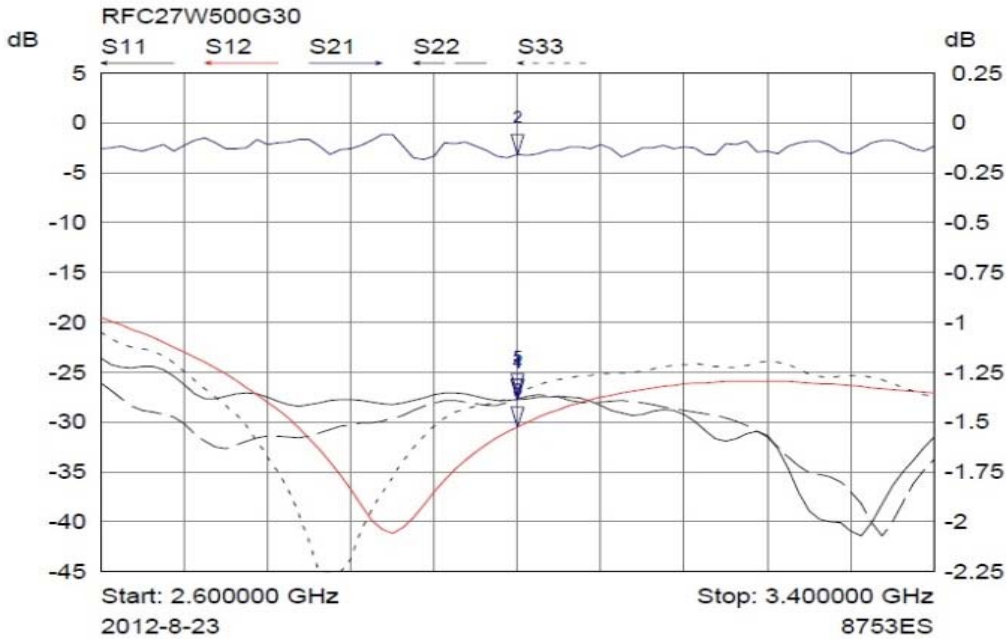
Ask manufacture for detail



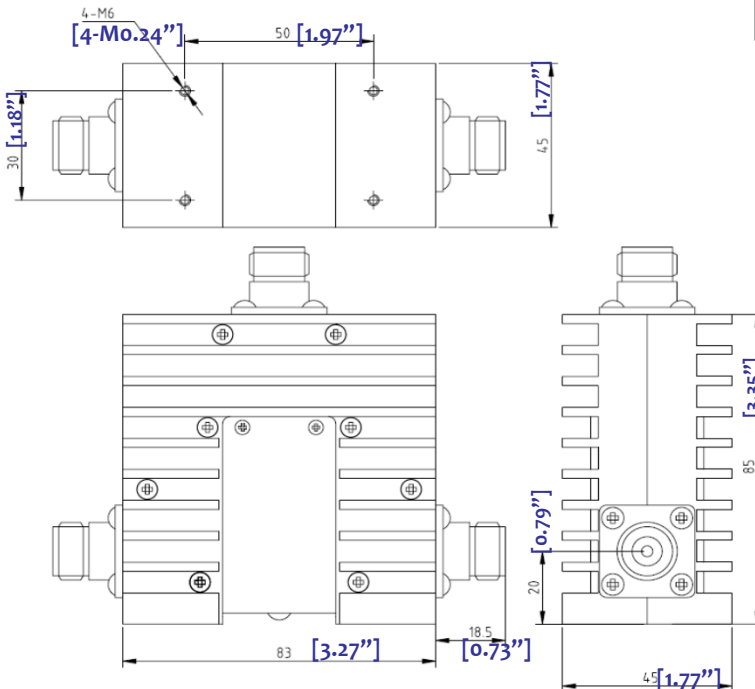
# RF-LAMBDA

The power beyond expectations

RFC27W500G30



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	3.000000 GHz	-27.7757 dB	
2 ▽	S21	3.000000 GHz	-0.1593 dB	
3 ▽	S12	3.000000 GHz	-30.4931 dB	
4 ▽	S22	3.000000 GHz	-27.6853 dB	
5 ▽	S33	3.000000 GHz	-27.1394 dB	



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