

30W 1-40 GHz 30 dB Directional Coupler



Features

Aluminum

Gray Paint

- High power handling capability up to 30W
- Ultra Wide band operation
- High directivity within operational band •
- Low Insertion loss
- Stable over temperature performance
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handling capability
- All specifications can be modified upon request

Max.

40

31

±1.0

2.0

1.6

1.6

Units

GHz

dB

dB

dB

dB

:1

:1

W

w

Ohms

°C

ounces

al Specifi	cations							
neters	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
cy Range	1		8	8		18	18	
Coupling	29	30	31.5	29	30	31	29	30
uency itivity		±0.8	±1.0		±0.6	±1.0		±0.6
tivity	15	18		12	14		10	12
on Loss oupling)		0.6	1.0		0.9	1.2		1.5
Primary		1.25	1.3		1.3	1.5		1.4
econdary		1.25	1.3		1.3	1.5		1.4
Average	30							
Peak	300							
dance	50							
ating erature	-45 to +85							
ight	2.46							
Output lector	2.92mm-Female							
	neters cy Range Coupling uency itivity ctivity on Loss oupling) Primary econdary Average Peak dance rating erature ight Output	cy Range 1 Coupling 29 uency itivity 15 on Loss oupling) Primary econdary Average Peak dance rating erature ight Output	neters Min. Typ. cy Range 1 Coupling 29 30 uency itivity 15 18 on Loss oupling) 0.6 Primary 1.25 econdary 1.25 Average 1 Peak 1.25 Average 1 Peak 1.25	netersMin.Typ.Max.cy Range18Coupling293031.5uency itivity±0.8±1.0utivity1518on Loss oupling)0.61.0Primary1.251.3econdary1.251.3Average	netersMin.Typ.Max.Min.cy Range188Coupling293031.529uency itivity±0.8±1.012uency itivity151812on Loss oupling)0.61.012on Loss oupling)1.251.312on Loss oupling)1.251.312on Loss oupling)1.251.312on Loss oupling)1.251.312on Loss oupling)1.251.312on Loss oupling)1.251.312on Loss oupling)1.251.312on Loss oupling)1.251.312econdary1.251.312econdary1.251.312ht1.251.312ight1.251.312output1.251.312	neters Min. Typ. Max. Min. Typ. cy Range 1 8 8	neters Min. Typ. Max. Min. Typ. Max. cy Range 1 8 8 18 18 Coupling 29 30 31.5 29 30 31 uency itivity ± 0.8 ± 1.0 ± 0.6 ± 1.0 ± 0.6 ± 1.0 uency itivity 15 18 12 14 10 on Loss oupling) 0.6 1.0 0.9 1.2 Primary 1.25 1.3 1.3 1.5 econdary 1.25 1.3 1.3 1.5 Average	neters Min. Typ. Max. Min. Typ. Max. Min. Typ. Max. Min. cy Range 1 8 8 18 18 18 Coupling 29 30 31.5 29 30 31 29 uency titivity ± 0.8 ± 1.0 ± 0.6 ± 1.0 ± 1.0 ± 1.0 ± 0.6 ± 1.0 $\pm $

Complian

Material

Finishing



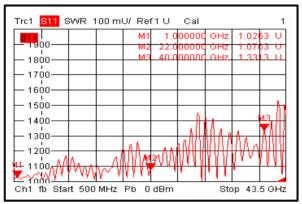
RF-LAMBDA LEADER OF BROADBAND SOLUTIONS

RFDC1G40G30

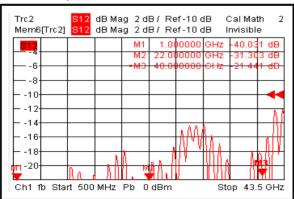
Environmental Specifications

a	
Operational	
Temperature (°C)	-45 to +85
Storage	
Temperature (°C)	-55 to +125
	30,000 ft. (Epoxy Seal Controlled environment)
Altitude	60,000 ft 1.0psi min
	(Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz)
vibration	endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave,3
	axis both directions

Primary VSWR

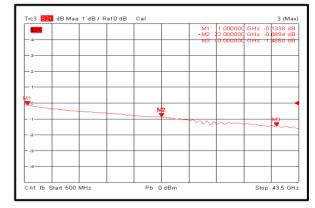


Directivity

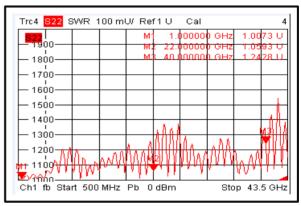


Typical Performance Plots

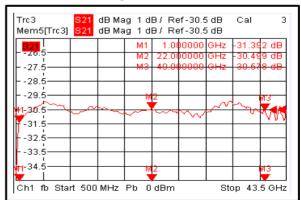
Insertion Loss



Secondary VSWR



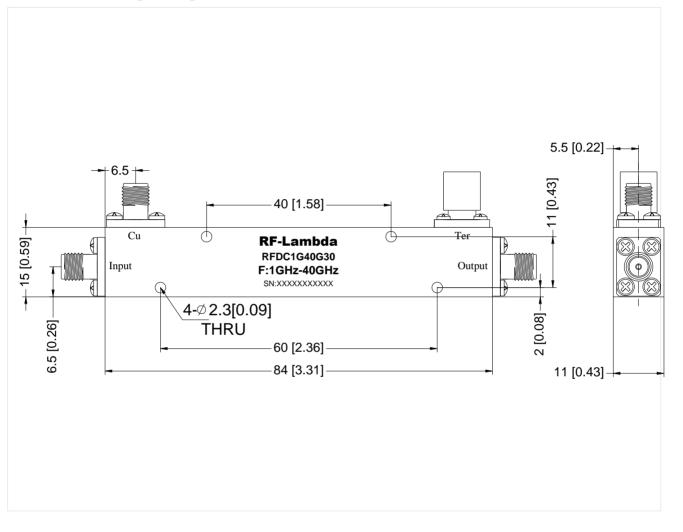
Nominal Coupling





Outline Drawing:

All Dimensions in mm [inches] Tolerance \pm 0.2 [0.008]



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Coaxial 30W 1-40 GHz 30 dB Directional Coupler

RFDC1G40G30