

ASC2155C

Wide Band RF Amplifier

- * Operating Frequency : 2.5-6 GHz
- * Saturated Power : 25W Psat Typical
- * Gain : 38 dB
- * Operation Up to 28 Volts



Description: Ultra wideband operation, Fiber Drivers, Test Instrumentation, All Purpose Power Amp

ELECTRICAL SPECIFICATION @ VDD= +28 VDC, -5VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	2.5		6	GHz
Gain	G	33	38	45	dB
Gain Flatness	Δ G		±2.0	±4.0	dB
Power Added Efficiency	PAE		30		%
Power Output	Psat	43	44		dBm
Output 3rd Order Intercept Point	OIP3	53	54		dBm
2nd Harmonic	HIP2	54	56		dBm
Return Loss in/out	S11/S22	5	10		dB
Operating Voltage	Vdc		-5,+28		Volt
Operating Current	Idq		1500	2300	mA

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.0 x 1.0 x 0.5		
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		

PROTECTIONS

	Max	
RF Input Power	10	dBm
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

ENVIROMENTAL CHARACTERISTICS

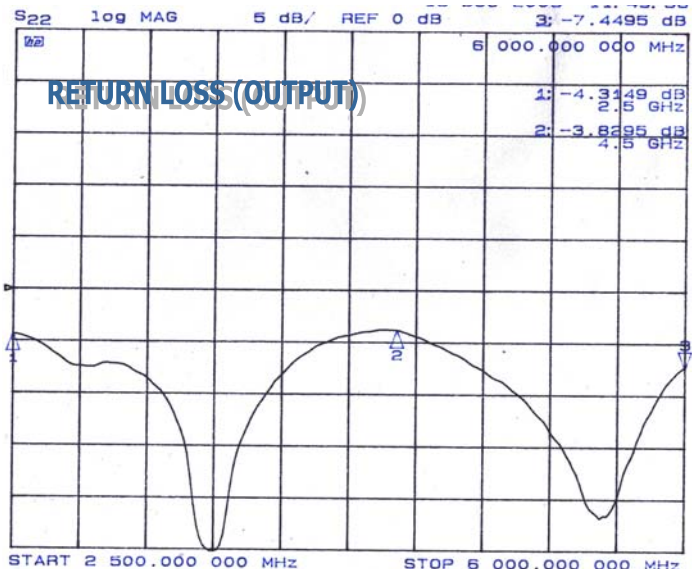
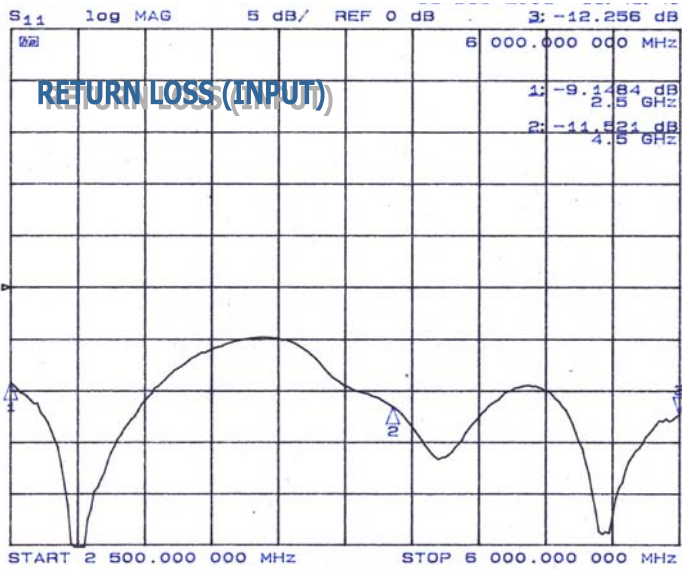
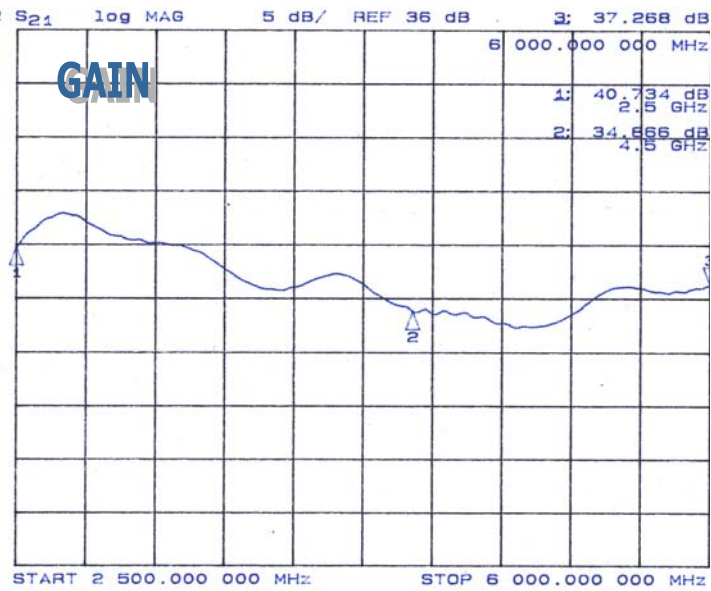
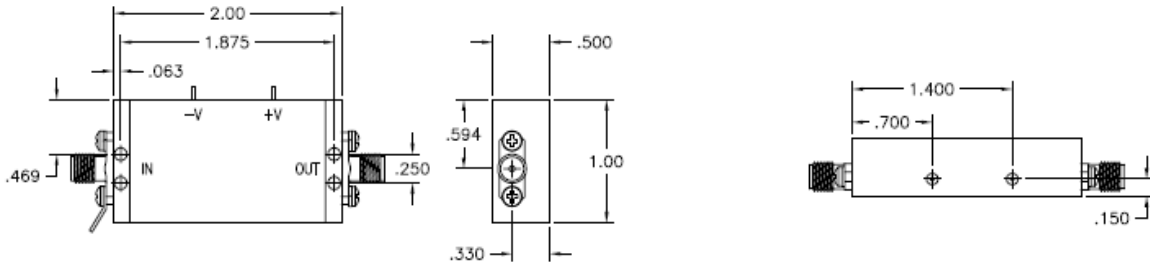
Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	0		75	°C
Storage Temperature	Tstg	-55		150°C	°C

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Outline Drawing



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