

Coaxial Amplifier

ZX60-ED12875/2

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : GC957

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	50		3000	MHz
Gain		18.9		dB
Output Power @ 1dB Compression		16.5		dBm
Noise Figure		1.1		dB
IP3		32		dBm
VSWR	IN	2.00		(:1)
	OUT	1.60		(:1)
DC Power	Voltage	5		V
	Current		80	mA

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Input Power	13dBm

Coaxial Low Noise Amplifier

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Typical Performance Data

FREQUENCY (MHz)	Gain (dB)		Directivity (dB)		VSWR IN (:1)		VSWR OUT (:1)		Noise Figure (dB)		Pout @ 1dB Compression (dBm)		Output IP3 (dBm)	
	3V	5V	3V	5V	3V	5V	3V	5V	3V	5V	3V	5V	3V	5V
50.0	21.75	21.99	5.60	5.48	1.89	1.93	1.26	1.27	1.26	1.60	16.47	17.63	28.47	31.95
100.0	21.65	21.94	5.12	4.98	1.78	1.85	1.15	1.12	0.96	1.11	16.67	17.55	28.75	32.29
200.0	21.54	21.84	5.05	4.95	1.77	1.85	1.08	1.07	1.09	0.97	16.68	17.71	29.11	32.08
300.0	21.34	21.63	5.24	5.24	1.79	1.88	1.05	1.11	0.90	0.98	16.66	17.66	29.31	32.09
400.0	21.06	21.32	5.64	5.74	1.83	1.93	1.03	1.16	0.92	0.99	16.93	17.86	29.63	32.27
500.0	20.71	20.94	6.09	6.37	1.88	1.99	1.04	1.22	0.92	1.01	16.83	17.87	29.86	32.51
600.0	20.28	20.47	6.67	7.17	1.94	2.05	1.07	1.28	0.94	1.04	16.94	17.88	29.59	32.48
700.0	19.61	19.76	7.73	8.45	1.87	1.98	1.14	1.35	1.20	1.30	16.80	17.87	29.35	32.33
800.0	19.37	19.46	7.82	8.83	2.03	2.16	1.15	1.40	0.95	1.04	16.79	17.80	29.32	32.03
900.0	19.11	19.19	8.08	9.32	1.78	1.90	1.20	1.42	0.95	1.03	16.61	17.66	29.23	31.29
1000.0	18.80	18.82	8.35	9.88	1.97	2.09	1.22	1.48	0.87	0.96	16.72	17.56	29.10	30.95
1500.0	16.71	16.54	10.35	13.28	2.16	2.27	1.42	1.76	0.85	0.95	15.92	16.91	28.04	30.66
2000.0	14.79	14.51	11.49	14.99	2.14	2.18	1.62	2.01	1.05	1.20	15.62	16.63	27.99	28.58
2500.0	13.42	13.11	11.42	14.60	2.00	1.94	1.75	2.15	1.03	1.18	16.37	16.83	27.92	28.55
3000.0	12.22	11.90	11.12	13.78	1.75	1.63	1.76	2.17	1.20	1.33	16.50	16.95	28.16	28.14



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 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

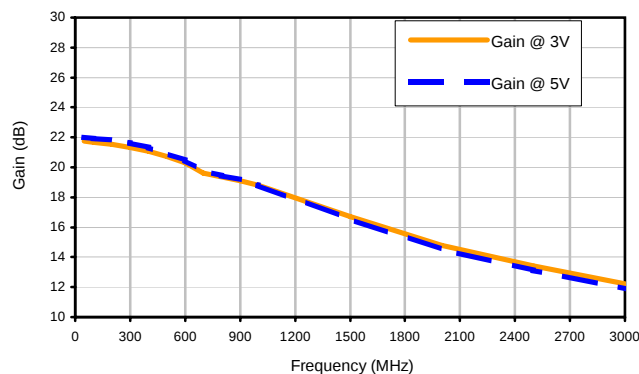
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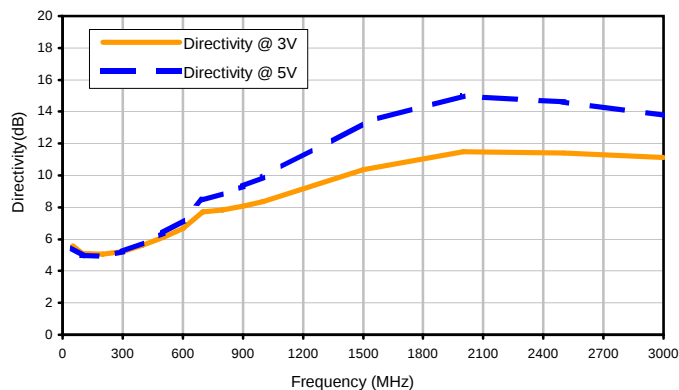
Typical Performance Curves

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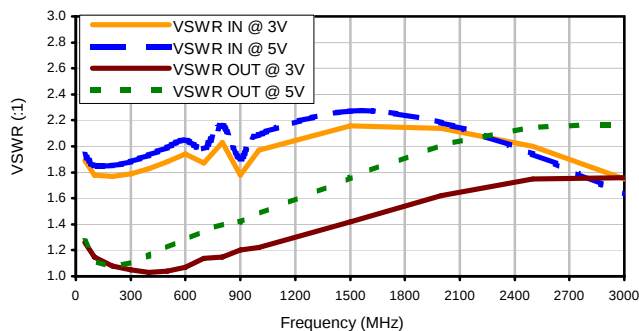
Gain



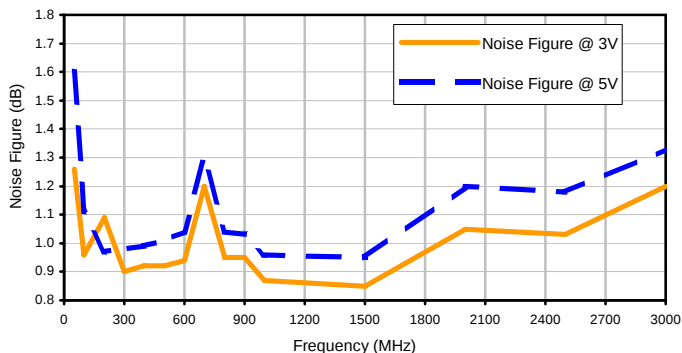
Directivity



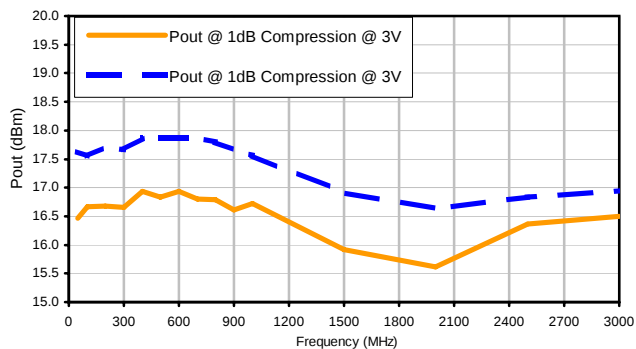
VSWR



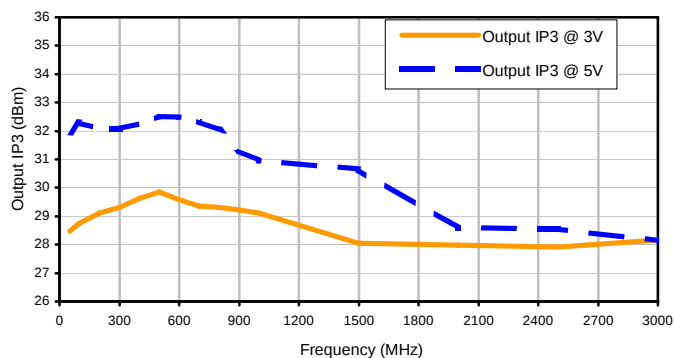
Noise Figure



Pout @ 1dB Compression



Output IP3

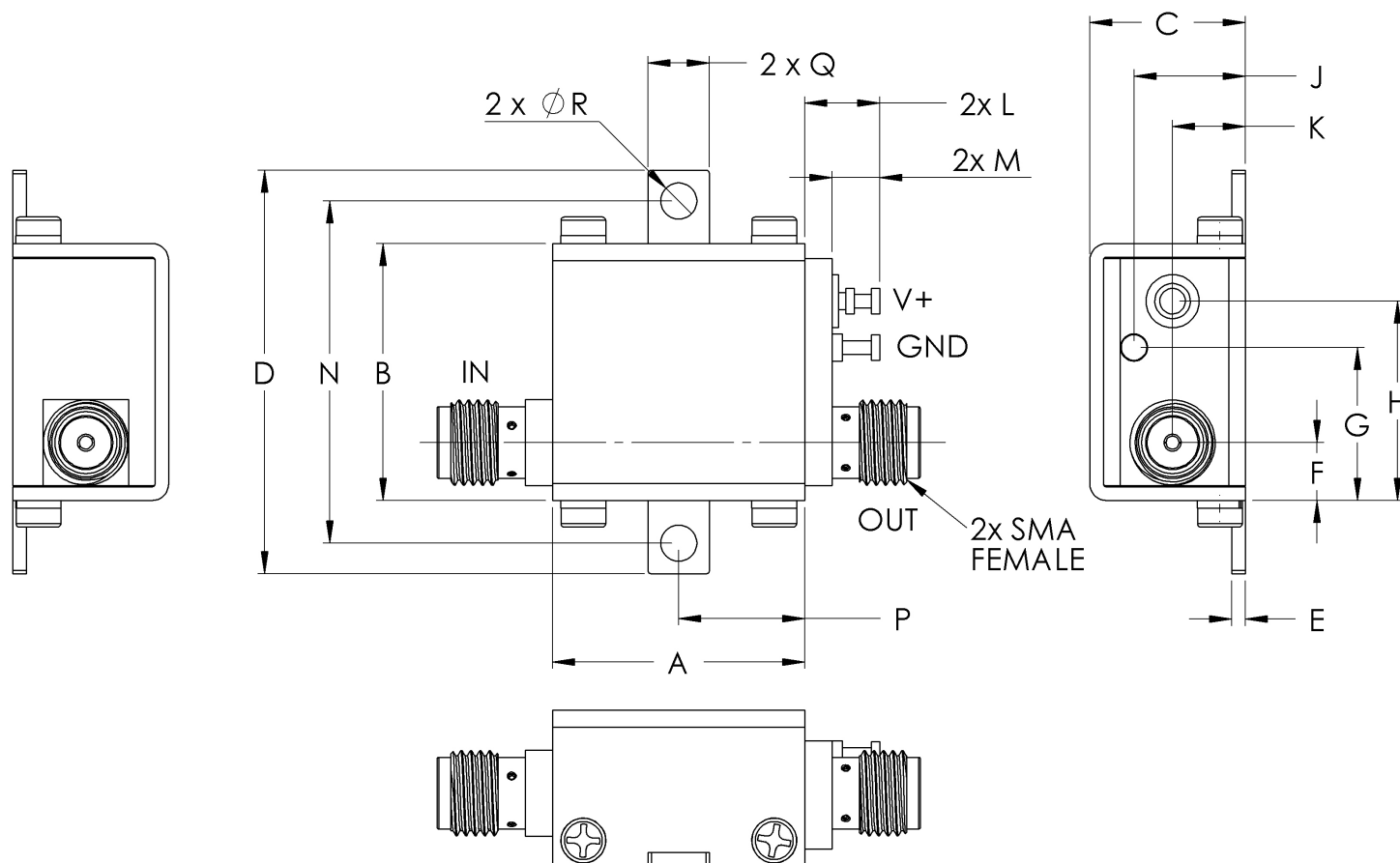


Case Style

Outline Dimensions

GC

GC957



CASE #.	A	B	C	D	E	F	G	H	J	K	L	M	N
GC957	.74 (18.80)	.75 (19.15)	.46 (11.61)	1.18 (30.07)	.04 (1.02)	.17 (4.32)	.45 (11.40)	.59 (14.86)	.33 (8.31)	.21 (5.44)	.22 (5.59)	.14 (3.56)	1.00 (25.4)

CASE #.	P	Q	R	WT GRAMS
GC957	.37 (9.40)	.18 (4.57)	.106 (2.69)	23.0

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$
Tolerance on hole size and interaxes dimensions to be $\pm .005$.

Note:

1. Case material: Brass
2. Case finish: Nickel plate

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85° C Case Temperature	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Stabilization Bake	(non-operating) 125°C, 24 hours	- - -
Burn-in at Elevated Temp.	(DC on) 160 hours at 85° C	MIL-STD-202, Method 108
Thermal Shock	-55° to 100°C, 5 cycles	MIL-STD-202, Method 107, Condition A, except 100°C