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ZVE-8GX+

Mini-Circuits

Low Noise Amplifiers

Any questions, please feel free to contact us.

info@kaimte.com



COAXIAL

Medium High Power Amplifier

ZVE-8G+ ZVE-8GX+

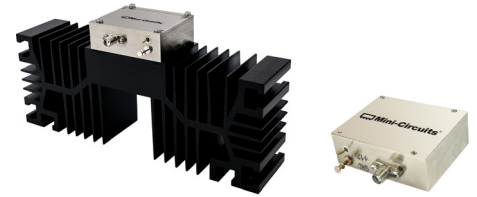
50Ω 2000 to 8000 MHz

THE BIG DEAL

- Wideband, 2 to 8 GHz
- Low noise, 4 dB typ.
- High IP3, +40 dBm typ.
- High dynamic range
- High gain, 30 dB min

APPLICATIONS

- Satellite communications
- Line-Of-Sight transmitters
- Signal generators
- Spread-spectrum communications



Generic photo used for illustration purposes only

Model No.	ZVE-8G+	ZVE-8GX+▲
Option	With heatsink	Without heatsink
Case Style	BN333	
Connectors	SMA	

+RoHS Compliant
 The +Suffix identifies RoHS Compliance.
 See our website for methodologies and qualifications

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Condition (MHz)	ZVE-8G+ ZVE-8GX+▲			Units
		Min.	Typ.	Max.	
Frequency Range		2000		8000	MHz
Gain	2000 - 8000	30	—	—	dB
Gain Flatness	2000 - 8000	—	—	+2.0	dB
Input VSWR	2000 - 8000	—	—	2.0	:1
Output VSWR	2000 - 8000	—	—	2.0	:1
Output Power at 1dB Compression	2000 - 8000	+30 ¹	—	—	dBm
Output IP3	2000 - 8000	—	+40	—	dBm
Noise Figure	2000 - 8000	—	4	—	dB
Device Operating Voltage		—	12	—	V
Device Operating Current		—	—	1.2	A

1. At 25°C; +30 dBm typ. at 54°C ambient.

▲To order without heat sink, add suffix X to model number. Alternative heat sinking and heat removal must be provided by the user to limit maximum base-plate temperature to 85°C, in order to ensure proper performance. For reference, this requires thermal resistance of user's external heat sink to be 1.3°C/W Max.

MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to 54°C
Storage Temperature	-65°C to 150°C
DC Voltage	+18V
Maximum Input Power (no damage)	+20 dBm

Permanent damage may occur if any of these limits are exceeded. Open load is not recommended and could potentially cause damage. With no load derate max input power by 20 dB.

REV. G
ECO-013026
ZVE-8G+
221118





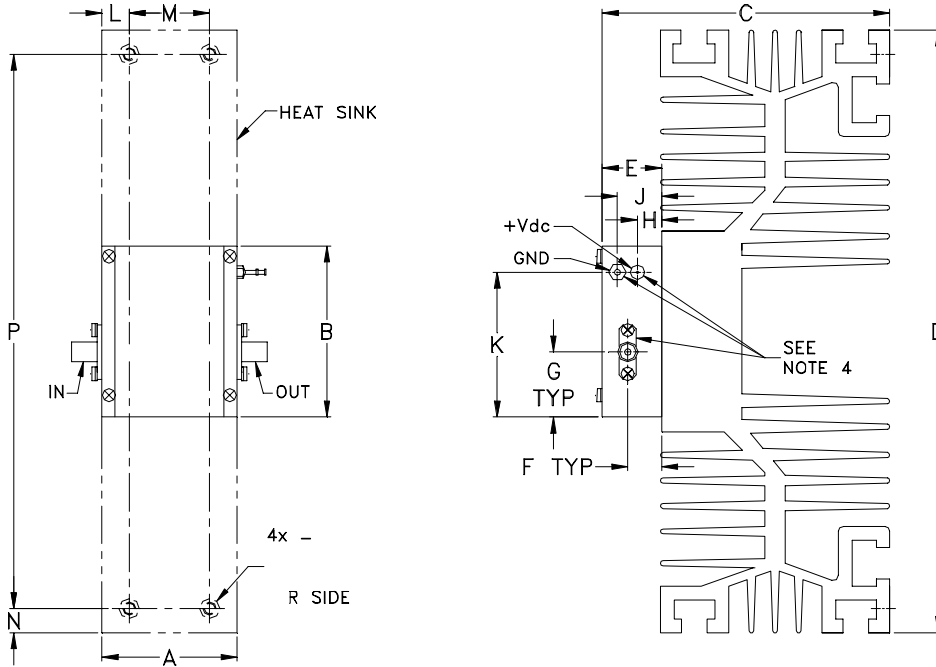
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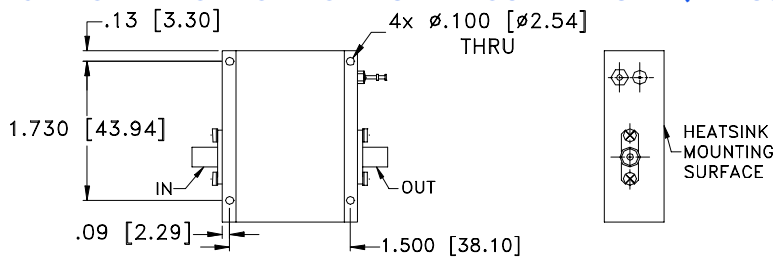
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OUTLINE DRAWING FOR MODELS WITH HEATSINK (ZVE-8G+)



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK (ZVE-8GX+)



OUTLINE DIMENSIONS (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
1.680	2.130	3.6	7.5	.74	.42	.81	.30	.55	1.80	.34	1.000	.30	6.900	grams*
42.67	54.10	91.44	190.50	18.80	10.67	20.57	7.62	13.97	45.72	8.64	25.40	7.62	175.26	700

*100 grams without heatsink

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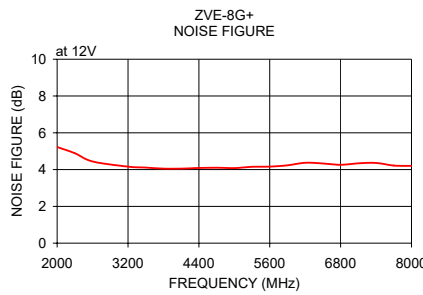
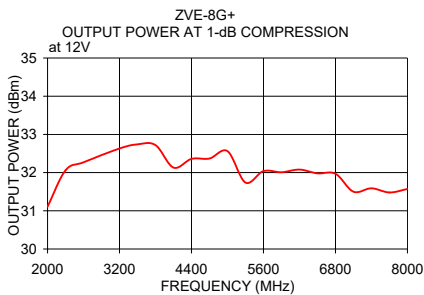
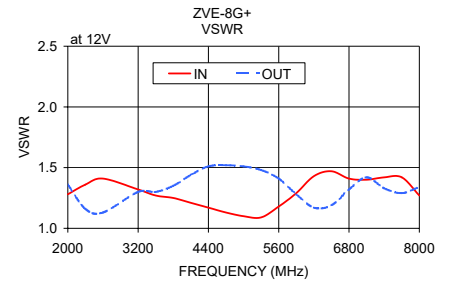
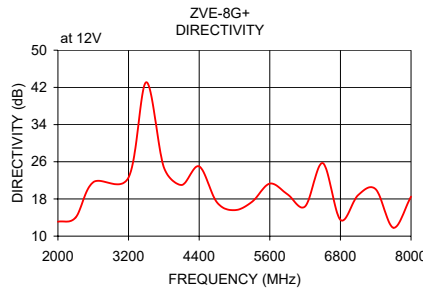
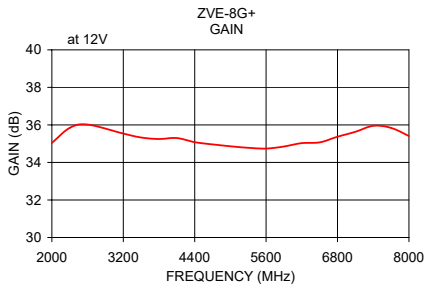
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TYPICAL PERFORMANCE DATA/CURVES

Frequency (MHz)	Gain (dB)	Directivity (dB)	VSWR (:1)		Pout at 1 dB Compr. (dBm)	Noise Figure (dB)
	12V		IN	OUT	12V	
2000	35.04	13.10	1.28	1.36	31.11	5.23
2300	35.84	14.00	1.36	1.16	32.06	4.89
2600	36.02	21.60	1.41	1.13	32.27	4.44
3200	35.54	22.60	1.32	1.30	32.63	4.16
3500	35.33	43.10	1.27	1.30	32.74	4.11
3800	35.25	24.80	1.25	1.35	32.72	4.05
4100	35.30	21.00	1.21	1.44	32.13	4.05
4400	35.08	25.00	1.17	1.51	32.36	4.09
4700	34.96	17.30	1.13	1.52	32.37	4.10
5000	34.86	15.60	1.10	1.51	32.56	4.08
5300	34.78	17.40	1.09	1.48	31.74	4.15
5600	34.74	21.30	1.18	1.41	32.04	4.16
5900	34.85	19.00	1.29	1.28	32.01	4.23
6200	35.03	16.40	1.43	1.17	32.08	4.37
6500	35.07	25.70	1.47	1.19	31.98	4.33
6800	35.37	13.50	1.41	1.32	31.97	4.26
7100	35.63	18.80	1.40	1.42	31.50	4.34
7400	35.95	20.10	1.42	1.33	31.59	4.36
7700	35.84	11.80	1.42	1.29	31.48	4.22
8000	35.41	18.50	1.27	1.34	31.57	4.20



- NOTES**
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 - B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 - C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard. Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html



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