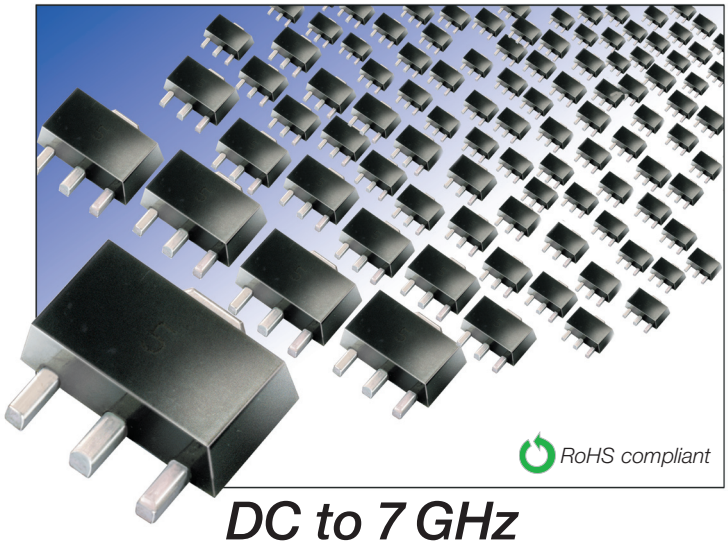
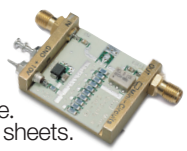
MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION!



DC to 7 GHz

GVA+ Features

- Fixed 5V operation
- Up to 21 dBm output pwr.
- Choice of gain, from 10 dB to 24 dB typ. @ 100 MHz
- Transient and ESD protected
- Miniature SOT-89 package
- Ruggedized design
- Low thermal resistance



Evaluation boards available.
See individual model data sheets.

Kit K1-GVA+ Electrical specifications of each model *(4 models, 10 of each, 40 total)*

Model	Freq. GHz ▲	Gain, dB Typical								Max. Pwr.* (dBm)			Dynamic Range*		VSWR (:1) Typ.		Max. Rating[1]		DC[2] Operating Power @ pin 3				Therm. Resist.	Evaluation Board
		over frequency, GHz							Min@	Output (1dB Comp.)		Input[1]	NF (dB)	IP3 (dBm)			I	P	Current	Device Volt.			θjc	
	f_L-f_U	0.1	1	2	3	4	6	7	2GHz	Typ.	Min		Typ.	Typ.	In	Out	(mA)	(mW)	(mA)	Typ.	Min.	Max.	Typ. °C/W	
GVA-81+	DC-7	10.5	10.5	10.0	9.3	8.7	8.1	7.6	9.0	19.7	17.5	20	7.4	36.6	1.3	1.4	160	1000	103	5.0	4.8	5.2	65	TB-410-81+
GVA-82+	DC-7	15.3	14.9	13.8	12.5	11.7	10.6	9.9	12.4	20.6	18.0	20	6.6	36.0	1.3	1.7	160	840	106	5.0	4.8	5.2	68	TB-410-82+
GVA-83+	DC-7	20.5	19.3	17.1	15.2	13.8	12.3	11.2	15.4	18.6	17.3	20	6.2	31.5	1.3	1.7	120	740	72	5.0	4.8	5.2	88	TB-410-83+
GVA-84+	DC-6	24.1	21.7	18.4	16.0	14.6	12.5	-	17.4	20.6	19.6	13	5.5	36.6	1.3	2.6	160	1000	108	5.0	4.8	5.2	64	TB-410-84+

Protected under U.S. Patent 6,943,629

▲ Low frequency cutoff determined by external coupling capacitors and RF choke (RFC). f_U is the upper frequency limit for each model.

* @ 2GHz

1. Permanent damage may occur if any of these limits are exceeded. These ratings are not intended for continuous normal operation.
2. Supply voltage must be connected to pin 3 directly through RF choke, GVA-83+ requires a 7.5 ohm bias resistor.

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