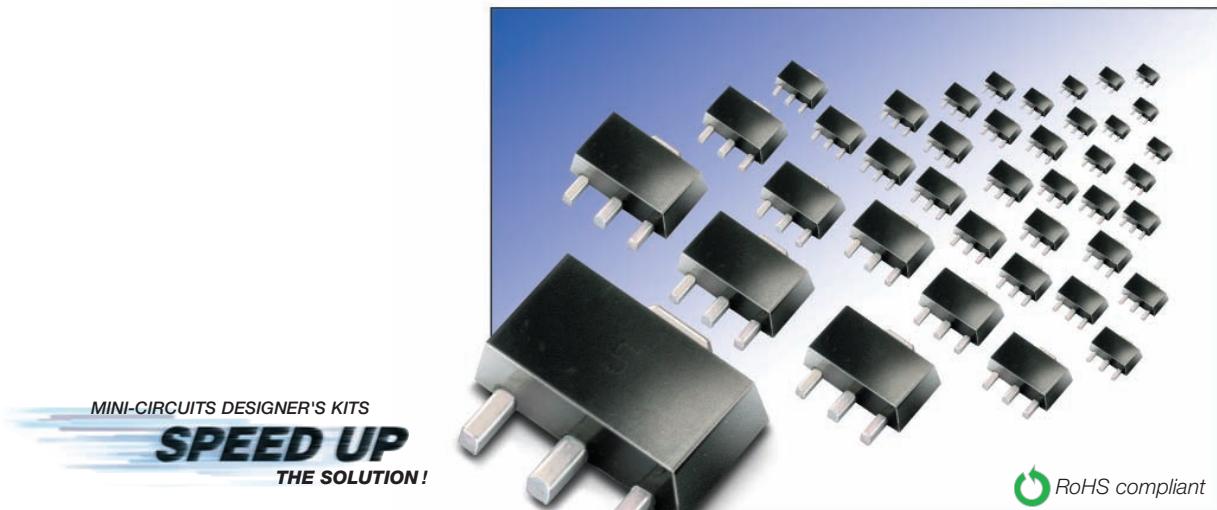


AMPLIFIERS

Designer's Kit K3-Gali_GVA+



DC to 8 GHz

Gali+, GVA+ Features

- Wideband, 50 Ω
- InGaP HBT microwave
- Up to 21.5 dBm output pwr.
- Noise figure from 2.7 dB
- Transient and ESD protected
- Miniature SOT-89 package
- Exposed metal bottom
- Excellent heat dissipation
- Low thermal resistance
- Fixed voltage operation, GVA₈₄₊



Kit K3-Gali_GVA+ Electrical specifications (4 models, 10 of each, 40 total)

Evaluation boards available
See individual model data sheets.

Model	Freq. GHz ▲	Gain, dB Typical					Max. Pwr.* (dBm) Output Typ.	Dynamic Range* Input ¹ (1 dB Comp.) Typ.	VSWR (:1) Typ.	Max. Rating ¹ I (mA)	DC ² Operating Power @ pin 3			Therm. Resist. θ _{jc} Typ. °C/W	Evaluation Board									
		over frequency, GHz									Current (mA)	Device Volt. Typ.	Min.	Max.										
		f _U	0.1	1	2	3	4	6	2 GHz	Out	(mA)	(mW)												
**GVA ₈₄₊	DC-6	24.1	21.7	18.4	16.0	14.6	12.5	17.4		20.5	19.5	13	5.6	35.8	1.3	2.6	160	1000	108	5.0	4.8	5.2	64	TB-410-84+
Gali ₇₄₊	DC-1	25.1	21.8	18.0	15.3	13.4		20.0 ^t		18.3	18.0	10	2.7	39.0	1.2	1.6	130	700	80	4.8	4.3	5.3	120	TB-409-74+
Gali ₂₄₊	DC-6	25.3	22.6	19.1	16.6	14.9	12.4	18.1		19.2	18.2	13	4.3	35.0	1.4	2.0	160	1000	80	5.8	5.4	6.2	64	TB-409-24+
Gali ₈₄₊	DC-6	25.6	22.7	19.2	16.7	15.0	11.8	18.2		21.5	20.4	13	4.4	37.8	1.4	2.1	160	1000	100	5.8	5.4	6.2	64	TB-409-84+

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

▲ Low frequency cutoff determined by external coupling capacitors. f_U is the upper frequency limit for each model.

* Models tested at 1 GHz, Gali₇₄₊ IP3 at 0.1 GHz.

** Operated with +5 V supply voltage.

^t Min. at 1 GHz.

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 through a bias resistor in order to prevent damage, except GVA₈₄₊.

Reliability predictions are applicable at specified current and normal operating conditions.



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