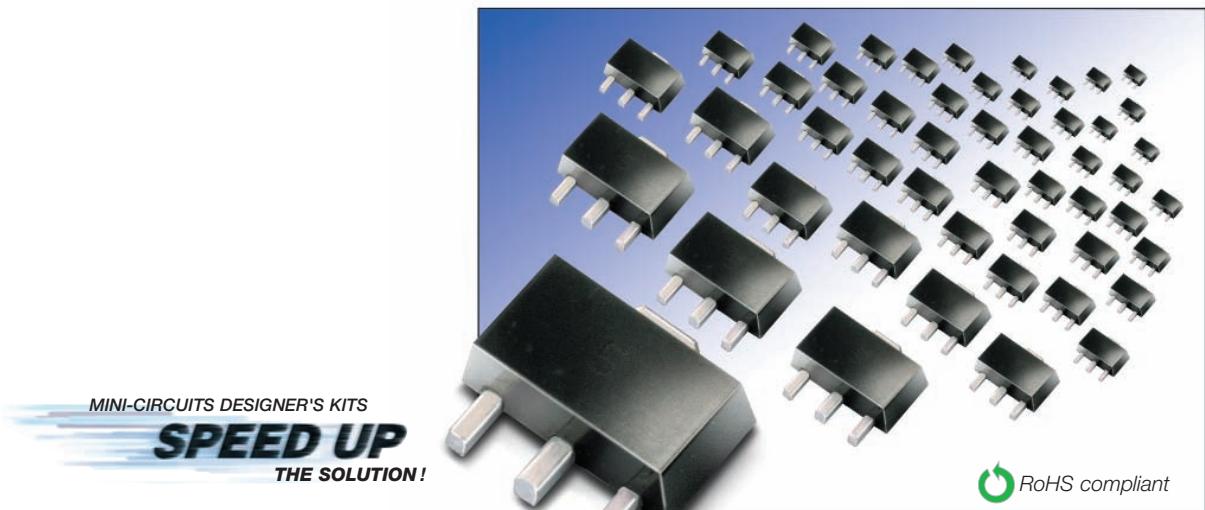


# AMPLIFIERS

Designer's Kit K5-Gali+



**DC to 4 GHz**

## Gali+ Features

- Wideband, 50Ω
- InGaP HBT microwave
- Up to 15.9 dBm output pwr.
- Usable to 6 GHz
- Transient and ESD protected
- Miniature SOT-89 package
- Exposed metal bottom
- Excellent heat dissipation
- Low thermal resistance



**Kit K5-Gali+** Electrical specifications of each model (5 models, 10 of each, 50 total)

Evaluation boards available  
See individual model data sheets.

Model	Freq. GHz ▲	Gain, dB Typical						Max. Pwr.* (dBm)	Dynamic Range* Output Input <sup>1</sup> (1 dB Comp.)	VSWR (:1) Typ.				Max. Rating <sup>1</sup>	DC <sup>2</sup> Operating Power @ pin 3			Therm. Resist. Typ.	Evaluation Board				
		over frequency, GHz								In	Out	DC-3	DC-3	I	P	Current (mA)	Device Volt. Typ. Min. Max.						
	f <sub>l</sub> -f <sub>u</sub>	0.1	1	2	3	4	6	2 GHz	Typ.	Typ.	Typ.	GHz	GHz	GHz	GHz	(mA)	(mW)						
Gali-6F+	DC-4	12.1	12.0	11.6	11.4	10.9	12.3	10	15.8	14.3	20	4.5	35.5	1.5	1.5	1.9	2.2	65	350	50	4.8 4.2 5.4	93	TB-409-6F+
Gali-4F+	DC-4	14.3	14.0	13.4	13.0	12.3	13.2	11	15.3	13.8	20	4.0	32	1.2	1.2	1.5	1.8	65	325	50	4.4 4.0 5.0	93	TB-409-4F+
Gali-51F+	DC-4	18.0	17.3	15.9	14.8	13.4	13.3	14	15.9	14.4	13	3.5	32	1.2	1.3	1.5	1.7	65	325	50	4.4 4.0 5.0	78	TB-409-51F+
Gali-5F+	DC-4	20.4	19.3	17.4	16.0	14.8	15.1	15.5	15.7	14.2	13	3.5	31.5	1.2	1.2	1.4	1.4	65	325	50	4.3 3.9 4.9	103	TB-409-5F+
Gali-55+	DC-4	21.9	20.6	18.5	17.0	15.5	15.7	17	15.0	13.5	13	3.3	28.5	1.25	1.35	1.3	1.5	65	350	50	4.3 3.8 4.8	100	TB-409-55+

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

▲ Low frequency cutoff determined by external coupling capacitors. f<sub>l</sub> is the upper frequency limit for each model.

\* Models tested at 1 GHz except Gali-55+ at 2 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. Reliability predictions are applicable at specified current and normal operating conditions.



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