

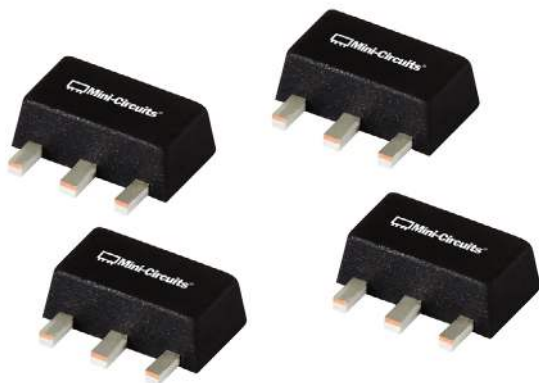


# DESIGNER'S KIT K4-GALI+

# Wideband Amplifiers

Mini-Circuits

50Ω DC to 8 GHz



## FEATURES

- Wideband, 50 Ω
- InGaP HBT microwave
- Up to 18.2 dBm output power
- Usable to 10 GHz
- Transient and ESD protected
- Miniature SOT-89 package
- Exposed metal bottom
- Excellent heat dissipation
- Low thermal resistance

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



Evaluation boards available.  
See individual model data sheets



## K4-GALI+ ELECTRICAL SPECIFICATIONS

(kit includes 9 models, 10 of each, 90 total)

Model	Freq. <sup>1</sup> (GHz)	Gain (dB) Typical								Maximum Power <sup>2</sup> (dBm) @ 1 GHz			Dynamic Range @ 1 GHz		VSWR (:1) Typ.				Max. Rating <sup>3</sup>		DC <sup>4</sup> Operating Power @ pin 3			Therm. Resist. θ <sub>jc</sub> Typ. °C/W	Evaluation Board		
		Over frequency, GHz								Output (1dB Compr.)		NF (dB) Typ.	IP <sub>3</sub> (dBm) Typ.	In DC-3 GHz	In 3-f <sub>u</sub> GHz	Out DC-3 GHz	Out 3-f <sub>u</sub> GHz	I (mA)	P (mW)	Current			Device Volt.				
		f <sub>c</sub> -f <sub>u</sub>	0.1	1	2	3	4	6	8	Min @ 2 GHz	Typ.									Min	Input <sup>3</sup>	Typ.	Min			Max	Typ.
**GALI1+	DC-8	12.7	12.5	11.8	11.3	10.5	10.5	11.0	9	12.2	10.5	15	4.5	27	1.3	1.7	1.4	1.8	55	225	40	3.4	3.0	4.1	108	TB-409-1+	
GALI21+	DC-8	14.3	13.9	13.1	12.4	11.5	11.9	9.0	11.5	12.6	10.5	15	4.0	27	1.1	1.5	1.3	2.5	55	225	40	3.5	3.0	4.1	128	TB-409-21+	
GALI2+	DC-8	16.2	15.8	14.8	13.7	12.7	13.2	15.1	12	12.9	11.0	15	4.6	27	1.6	2.5	1.6	2.6	55	225	40	3.5	3.0	4.1	101	TB-409-2+	
GALI33+	DC-4	19.3	18.7	17.5	16.3	15.5	15.8	-	16	13.4	11.4	13	3.9	28	1.6	2.0	1.2	1.3	55	265	40	4.3	3.8	4.8	110	TB-409-33+	
GALI3+	DC-3	22.4	21.1	19.1	17.3	16.1	15.8	-	17.5	12.5	10.5	13	3.5	25	1.5	-	1.2	-	55	225	35	3.3	3.0	4.1	127	TB-409-3+	
GALI6+	DC-4	12.2	12.2	11.8	11.3	11.4	12.3	-	10	18.2	16.5	20	4.5	35.5	1.5	1.4	1.8	2.0	85	475	70	5.0	4.6	5.6	93	TB-409-6+	
GALI4+	DC-4	14.4	14.1	13.5	12.9	12.5	13.1	-	11	17.5	16.0	20	4.0	34	1.2	1.2	1.4	1.7	85	475	65	4.6	4.2	5.5	93	TB-409-4+	
GALI51+	DC-4	18.1	17.5	16.1	14.7	13.7	13.4	-	14	18.0	16.5	13	3.5	35	1.3	1.2	1.5	1.7	85	475	65	4.5	4.2	5.5	78	TB-409-51+	
GALI5+	DC-4	20.6	19.4	17.5	16.0	14.9	15.1	-	16	18.0	16.0	13	3.5	35	1.2	1.2	1.4	1.4	85	475	65	4.4	4.0	4.9	103	TB-409-5+	

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

\*\* Operated with +5 V supply voltage.

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

2. Models tested at 2 GHz, except GALI-4+, 5+,6+ @ 1 GHz.

3. Permanent damage may occur if any of these limits are exceeded. These ratings are not intended for continuous normal operation.

4. 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.

REV. C  
ECO-009046  
K4-GALI+  
MCL NY  
080221

