



## DESIGNER'S KIT K2-ERA+

# Wideband Amplifiers

Mini-Circuits

50Ω DC to 8 GHz



### FEATURES

- Wideband, 50 Ω
- Up to 18.4 dBm typ. output power
- Low thermal resistance
- Miniature microwave amplifier
- Plastic drop-in package
- Low cost

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



Evaluation boards available.  
See individual model data sheets.



### K2-ERA+ ELECTRICAL SPECIFICATIONS

(kit includes 2 models, 10 of each, 20 total)

Model	Freq. <sup>1</sup> (GHz)	Gain (dB) Typical						Maximum Power (dBm) @ 1 GHz			Dynamic Range @ 1 GHz		VSWR (:1) Typ.				Absolute Max. Rating <sup>2</sup>		DC <sup>3</sup> Operating Power @ pin 3			Therm. Resist.  θ <sub>jc</sub> Typ. °C/W	Evaluation Board	
		Over frequency, GHz						Output (1dB Compr.) Typ.	Input <sup>1</sup> Typ.	NF (dB) Typ.	IP3 (dBm) Typ.	In DC-3 GHz	In 3-4 GHz	Out DC-3 GHz	Out 3-4 GHz	I (mA)	P (mW)	Current (mA)	Device Volt.					
		0.1	1	2	3	4	Min @ 2 GHz												Typ.	Min	Typ.			Typ.
ERA-4+	DC-4	14.3	14.0	13.4	12.7	11.8	11	17.3	15.0	20.0	4.2	34.0	1.2	1.2	1.3	1.8	120	650	65	4.5	4.2	5.5	163	TB-431-4+
ERA-5+	DC-4	20.2	19.5	17.6	15.6	14.0	16	18.4	16.5	13.0	4.3	32.5	1.3	1.3	1.2	1.3	120	650	65	4.9	4.2	5.5	133	TB-431-5+

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

1. Low frequency cutoff determined by external coupling capacitors.  $f_u$  is the upper frequency limit for each model.

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

3. Supply voltage must be connected to pin 3 through a bias resistor in order to prevent damage. See "Biasing MMIC Amplifiers" at [minicircuits.com/applications.shtml](http://minicircuits.com/applications.shtml). Reliability predictions are applicable at specified current and normal operating conditions.

