



Mini-Circuits®

DESIGNER'S KIT K1-ERASM+

Wideband Amplifiers

50Ω DC to 8 GHz



FEATURES

- Wideband, 50 Ω
- Up to 13.0 dBm typ. output power
- Low thermal resistance
- Miniature microwave amplifier
- Plastic micro-x surface mount package
- Usable to 10 GHz

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



Evaluation boards available.
See individual model data sheets



K1-ERASM+ ELECTRICAL SPECIFICATIONS

(kit includes 3 models, 10 of each, 30 total)

Model	Freq. ¹ (GHz)	Gain (dB) Typical									Maximum Power (dBm) @ 2 GHz			Dynamic Range @ 2 GHz		VSWR (:1) Typ.				Absolute Max. Rating ²		DC ³ Operating Power @ pin 3				Therm. Resist.	Evaluation Board
		Over frequency, GHz									Output (1dB Compr.)		Input ¹		In DC-3 GHz	In 3-f _u GHz	Out DC-3 GHz	Out 3-f _u GHz	I (mA)	P (mW)	Current		Device Volt.		θ _{jc} Typ. °C/W		
		f _L -f _U	0.1	1	2	3	4	6	8	Min @ 2 GHz	Typ.	Min	NF (dB) Typ.	IP3 (dBm) Typ.							Current (mA)	Typ.	Min.	Max			
ERA-1SM+	DC-8	12.3	12.1	11.8	10.9	9.7	7.9	8.2	9	12.0	10.0	15	4.3	26	1.5	1.8	1.5	1.9	75	330	40	3.4	3.0	4.1	183	TB-408-1+	
ERA-2SM+	DC-6	16.2	15.8	15.2	14.4	13.1	11.2	-	13	13.0	11.0	15	4.0	26	1.3	1.4	1.2	1.6	75	330	40	3.4	3.0	4.1	160	TB-408-2+	
ERA-3SM+	DC-3	22.1	21.0	18.7	16.8	-	-	-	16	12.5	9	13	3.5	25	1.5	-	1.4	-	75	330	35	3.2	3.0	4.1	186	TB-408-3+	

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

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