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

DC to 4 GHz

ERA-SM+ Features

- Wideband, 50 Ω
- Up to +18.4 dBm typ. output power
- Low thermal resistance
- Miniature microwave amplifier
- Plastic micro-x surface mount package

only $99.95 ea. kit *(3 models, 10 of each, 30 total)*

Evaluation boards available, $79.95
See individual model data sheets.

Kit K3-ERASM+ Electrical specifications of each model

Model	Freq. GHz ▲	Gain, dB Typical						Max. Pwr. (dBm) @ 1 GHz			Dynamic Range @ 1 GHz		VSWR (:1) Typ.				Absolute Max. Rating[1]		DC[2] Operating Power @ pin 3				Therm. Resist.	Evaluation Board
		over frequency, GHz						Output (1 dB Comp.)		Input[1]	NF	IP3	In		Out				Current	Device Volt.			θjc	
	f_L-f_U	0.1	1	2	3	4	Min@ 2 GHz	Typ.	Min.		(dB) Typ.	(dBm) Typ.	DC-3 GHz	3-4 GHz	DC-3 GHz	3-4 GHz	I (mA)	P (mW)	(mA)	Typ.	Min.	Max.	Typ. °C/W	
ERA-4SM+	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	196	TB-408-4+
ERA-5SM+	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-408-5+
ERA-6SM+	DC-4	12.6	12.5	12.2	11.7	11.3	10.5	17.9	16.0	20.0	4.5	36.0	1.3	1.2	1.6	1.8	120	650	70	5.0	4.6	5.6	143	TB-408-6+

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.

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. See "Biasing MMIC Amplifiers" at minicircuits.com/applications.shtml. Reliability predictions are applicable at specified current and normal operating conditions.

Mini-Circuits®

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com