



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



Evaluation boards available
See individual model data sheets.

Kit K3-ERASM+ Electrical specifications of each model (3 models, 10 of each, 30 total)

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
								Output Input ¹ (1 dB Comp.)			NF IP3 (dB) (dBm)		In Out										θjc	
	f _L -f _U	over frequency, GHz					Min@ 2 GHz	Typ.	Min.	Typ.	Typ.	Typ.	DC-3 GHz	3-4 GHz	DC-3 GHz	3-4 GHz	I (mA)	P (mW)	Current (mA)	Device Volt. Typ. Min.Max.			Typ. °C/W	
		0.1	1	2	3	4																		
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.

