

BROADBAND DC to 8 GHz



All specifications at 25°C

MODEL NO.	FREQ. GHz f _l - f _u	GAIN, dB Typical								MAXIMUM POWER, dBm at 2 GHz*		DYNAMIC RANGE at 2 GHz*		VSWR Typ. (:1)		MAXIMUM RATING ³		DC POWER at Pin 3		THERMAL RESISTANCE θ _{JC} , °C/W	CAPD DATA (see RF/IF Designer handbook)	Case Style Note B	CONNECTION Qty. (30)	Price \$				
		over frequency, GHz								Output (1 dB Comp.) Typ.	Input (no dmg.)	NF dB Typ.	IP3 dBm Typ.	In DC-3 GHz	Out 3-f _u ** GHz	I mA	P mW	Current (mA)	Volt Typ.									
		0.1	1	2	3	4	6	8	Min.@ 2 GHz	DC-2 GHz	Flatness	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.						Typ.			
ERA-1 99	DC-8	12.2	12.1	11.8	11.5	11.3	11.0	10.2	9	±0.3	11.7	9.7	15	5.3	26	1.6	1.8	1.5	1.9	75	330	40	3.6	455	3-56	VV105	cb	1.37
ERA-2 99	DC-6	16.2	16.0	15.6	15.1	14.6	14.0	--	12	±0.3	12.8	11	15	4.7	26	1.4	1.4	1.4	1.6	75	330	40	3.6	455	3-56	VV105	cb	1.52
ERA-3 99	DC-3	22.9	22.2	20.8	19.2	--	--	--	17	±1.1	12.1	9	13	3.8	23	1.7	--	1.7	--	75	330	35	3.5	432	3-56	VV105	cb	1.67
ERA-4 99	DC-4	13.8	13.7	13.5	13.3	13.0	--	--	11	±0.2	17.0	15	20	5.5	32.5	1.6	1.6	1.4	1.6	120	650	65	5.0	278	3-57	VV105	cb	3.85
ERA-1SM 99	DC-8	12.3	12.1	11.8	11.2	10.8	10.4	9.2	9	±0.3	11.3	9.3	15	5.5	26	1.6	1.9	1.5	1.9	75	330	40	3.6	460	3-56	WW107	cb	1.42
ERA-2SM 99	DC-6	16.2	15.8	15.2	14.4	13.6	13.0	--	12	±0.5	12.4	10.5	15	4.6	26	1.5	1.6	1.5	1.7	75	330	40	3.6	460	3-56	WW107	cb	1.57
ERA-3SM 99	DC-3	22.8	21.8	20.2	18.4	--	--	--	16	±1.3	11.5	9	13	3.8	23	1.5	--	1.5	--	75	330	35	3.5	437	3-56	WW107	cb	1.72
ERA-4SM 99	DC-4	14.0	13.8	13.5	13.2	12.7	--	--	11	±0.3	16.8	15	20	5.2	33	1.6	1.6	1.3	1.5	120	650	65	5.0	283	3-57	WW107	cb	3.90

absolute maximum ratings
 operating temperature: -45°C to 85°C
 storage temperature: -65° to 150°C
 device voltage: 3.0V min., 4.1V max. for ERA 1,2,3
 4.2V min., 5.5V max. for ERA 4,5

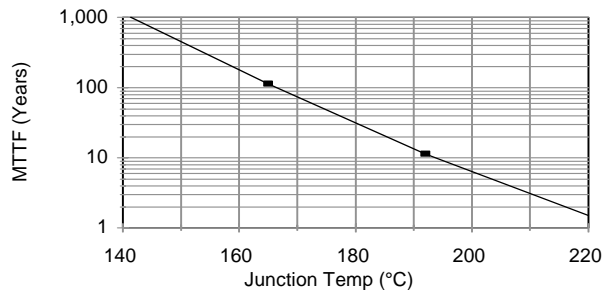
marking identification

Model	Alphanumeric Code
ERA-1, ERA-1SM	E1
ERA-2, ERA-2SM	E2
ERA-3, ERA-3SM	E3
ERA-4, ERA-4SM	E4

NOTES:

- * at 1 GHz for ERA 4, 5, 6, 4SM
- ** f_u is the upper frequency limit for each model as shown in the table.
- ⊕ Low frequency cutoff determined by external coupling capacitors.
- A. Environmental specifications and re-flow soldering information available in General Information Section.
- B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- D. For Quality Control Procedures see Table of Contents, Section 0, "Mini-Circuits Guarantees Quality" article. For Environmental Specifications see Amplifier Selection Guide.
- 1. Model number designated by alphanumeric code marking.
- 2. ERA-SM models available on tape and reel.
- 3. Operation at max. rating will severely decrease MTF (ref to MTF graph)

MTTF vs. JUNCTION TEMP. (ERA)



Typical Biasing Configuration ERA

