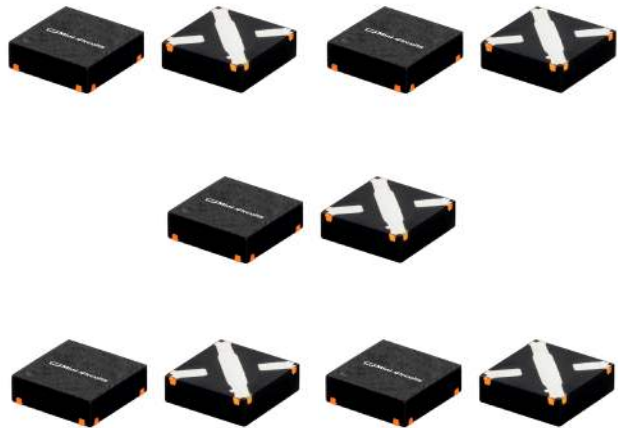




Wideband Amplifiers

50Ω DC to 8 GHz



FEATURES

- Wideband, 50Ω
- Up to +17.3 dBm typ. output power
- Flat output power
- Usability to 10 GHz (Models LEE-19+, -29+, -39+)
- High IP3 up to +33 dBm typ.
- MCLP™ (Mini-Circuits Leadless Package) (L) 3.0 x (W) 3.0 x (H) 0.89mm plastic case
- Exposed metal bottom
- Package excellent for heat dissipation
- Low thermal resistance for high reliability



Evaluation boards available.
See individual model data sheets.



K2-LEE+ ELECTRICAL SPECIFICATIONS

(kit includes 5 models, 10 of each, 50 total)

Model	Freq. ¹ (GHz)	Gain (dB) Typical								Maximum Power (dBm)			Dynamic Range		VSWR (:1) Typ.				Max. Rat- ing ² I (mA)	DC ³ Operating Power @ pin 3				Therm. Resist. θjc Typ. °C/W	Evaluation Board
		Over frequency, GHz								Output (1dB Compr.) 2 GHz	Input ² f _u	NF (dB) Typ.	IP3 (dBm) Typ.	In DC-3 GHz	In 3-f _u GHz	Out DC-3 GHz	Out 3-f _u GHz	Current (mA)		Device Volt.					
		f _c -f _u	0.1	1	2	4	5	8	10											Min @ 2 GHz	Typ.	Min.	Typ.		
LEE-19+	DC-8	12.1	12.0	12.1	12.0	11.6	10.6	9.0	9.6	10.2	11.3	15	6.5	24.5	1.5	1.2	1.4	1.8	55	40	3.6	3.2	4.0	322	TB-413-19
LEE-29+	DC-8	15.5	15.4	15.4	14.9	14.1	12.5	10.6	13.3	10.9	11.3	15	5.5	25.5	1.4	1.3	1.3	1.6	55	40	3.6	3.2	4.0	334	TB-413-29
LEE-39+	DC-8	21.9	21.4	20.8	18.3	16.6	13.5	-	18.5	10.4	11.3	13	2.4	23.4	1.3	1.4	1.3	1.6	55	35	3.5	3.1	3.9	321	TB-413-39
LEE-49+	DC-5	14.0	13.9	14.3	14.0	13.1	7.8	-	12.0	16.4	10.8	15	5.5	33.0	1.6	1.2	1.4	1.4	85	65	4.9	4.5	5.3	229	TB-413-49
LEE-59+	DC-5	20.6	20.3	19.7	15.8	13.8	7.6	-	17.8	17.3	11.7	13	4.5	33.0	1.5	1.5	1.5	1.6	85	65	4.8	4.3	5.2	244	TB-413-59

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