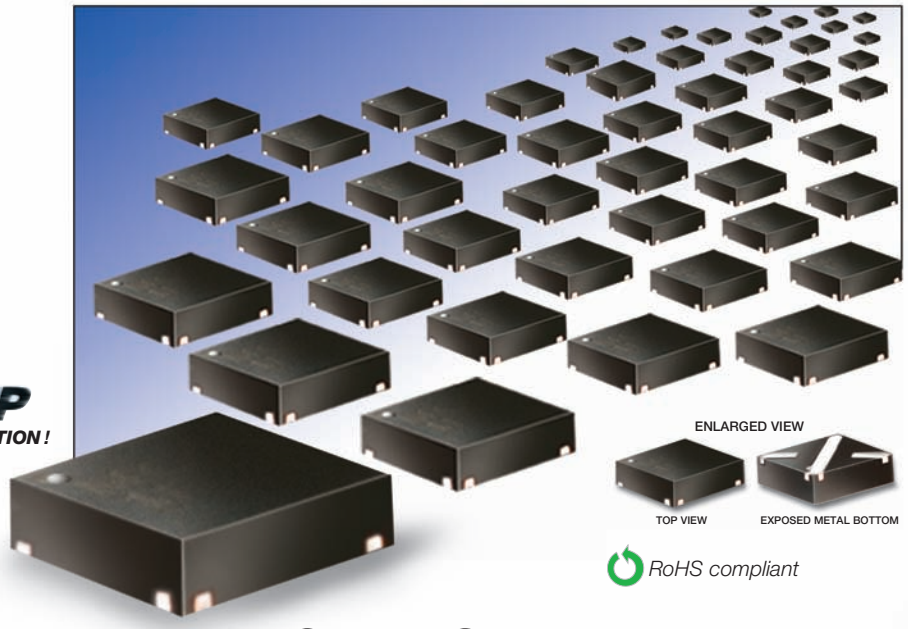
MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION!

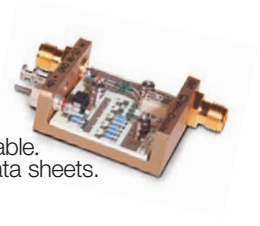


RoHS compliant

DC to 8 GHz

LEE+ Features

- Wideband, 50Ω
- Up to +17.3 dBm typ. output pwr.
- 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.

Kit K2-LEE+ Electrical specifications of each model *(5 models, 10 of each, 50 total)*

Model	Freq. (GHz) ▲	Gain, (dB) Typical over frequency, GHz								Max. Pwr. (dBm)			Dynamic Range		VSWR (:1) Typ.				Maximum Current Rating[1]	DC[2] Operating Power @ pin 3				Therm. Resist	Evaluation Board
									Min @	Output (1dB Comp.)	Input[1]		NF	IP3	In		Out								
	f_L-f_U	0.1	1	2	4	5	8	10	2 GHz	2 GHz	f_U		(dB) Typ.	(dBm) Typ.	DC-3 GHz	3-f_U GHz	DC-3 GHz	3-f_U GHz	I (mA)	Current (mA)	Device Volt. Typ.	Min.	Max.	θjc Typ. °C/W	
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	10.5	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

▲ 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. Reliability predictions are applicable at specified current & normal operating conditions.

Mini-Circuits®

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

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