



Mini-Circuits

DESIGNER'S KIT K-ZFL

Wideband Amplifiers

50Ω 2.5 kHz to 2000 MHz



ZHL/ZFL FEATURES

ZHL-6A+

- Output pwr. +22dBm max.
- High Gain
- High IP3
- Includes heat sink
- BNC Female connectors

ZFL-1000+

- Output power +9dBm max.
- Rugged shielded case
- SMA Female connectors

ZFL-2000+

- Output power +16dBm max.
- High gain
- Unconditionally stable
- Includes heat sink
- SMA Female connectors

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



K-ZFL ELECTRICAL SPECIFICATIONS

(kit includes 3 models, 1 of each, 3 total)

Model	Frequency (MHz) f_L - f_U	Gain (dB)			Maximum Power		Dynamic Range		VSWR (:1) Typ.		DC Power	
		Typ.	Min.	Flatness Max.	Output (1dB Compr.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZHL-6A+	0.0025-500	25	21	±1.2	+22	+10	9.5	+34	1.8	2.0	24	350
ZFL-1000+	0.1-1000	-	17	±0.7	+9	+5	6.0	+18	1.5	2.1	15	105
ZFL-2000+	10-2000	-	20	±1.5	+16 ¹	+5	7.0	+25	2.0	2.0	15	120

Protected under U.S. Patent 6,943,629

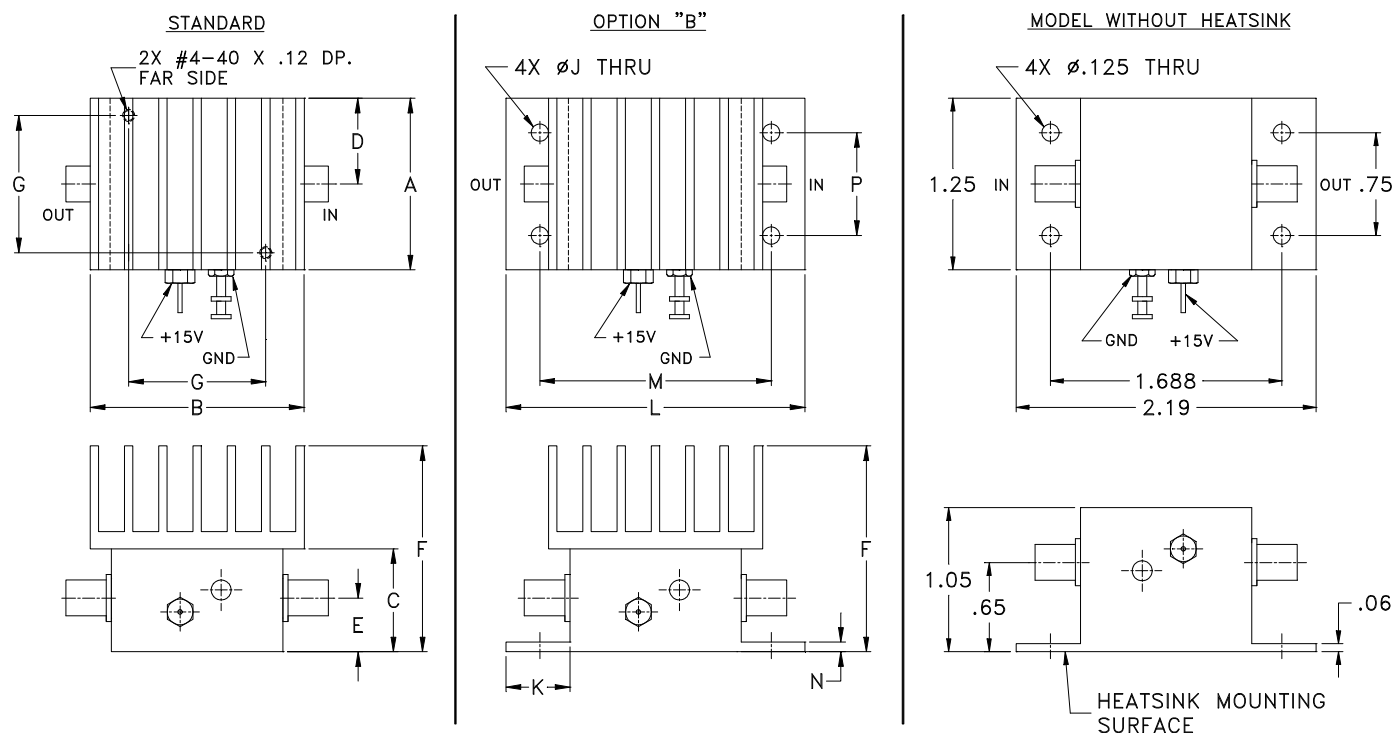
1. Open load is not recommended, potentially can cause damage, with no load derate max. input power by 20dB.

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REV. A
ECO-009046
K-ZFL
MCL NY
080221

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
SS98	1.25 (31.75)	1.56 (39.62)	.75 (19.05)	.63 (16.00)	.39 (9.91)	1.50 (38.10)	1.000 (25.40)	--	.125 (3.18)	.46 (11.68)	2.19 (55.63)	1.688 (42.88)	.06 (1.52)

CASE#	P	WT. GRAMS	WT. WITHOUT HEATSINK GRAMS
SS98	.750 (19.05)	85.0	70.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Heat sink finish: Black anodize.
- Refer to the individual model data sheet for the type of connector available.



INTERNET <http://www.minicircuits.com>

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