

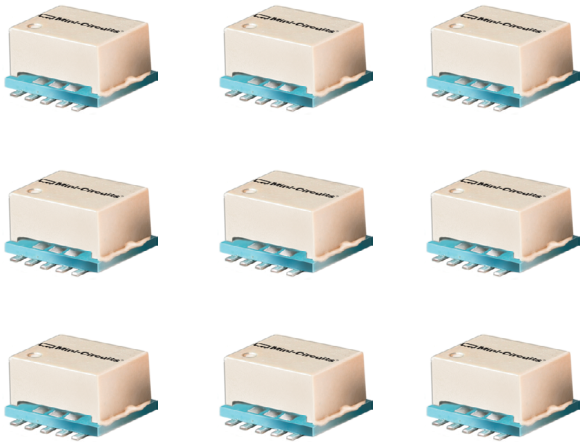


Mini-Circuits

DESIGNER'S KIT K1-MCA+

Frequency Mixers

50Ω 500 to 5000 MHz



FEATURES

- Triple balanced, wide bandwidth
- Excellent isolation, 30dB
- Large selection of models, LO levels 10,13 and 17dBm
- Low conversion loss, 7dB
- Very good matching, 2:1 VSWR typ.
- Small size 0.25"x 0.3"x 0.19"

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



K1-MCA+ ELECTRICAL SPECIFICATIONS

(6 models, 5 of each, 30 total)

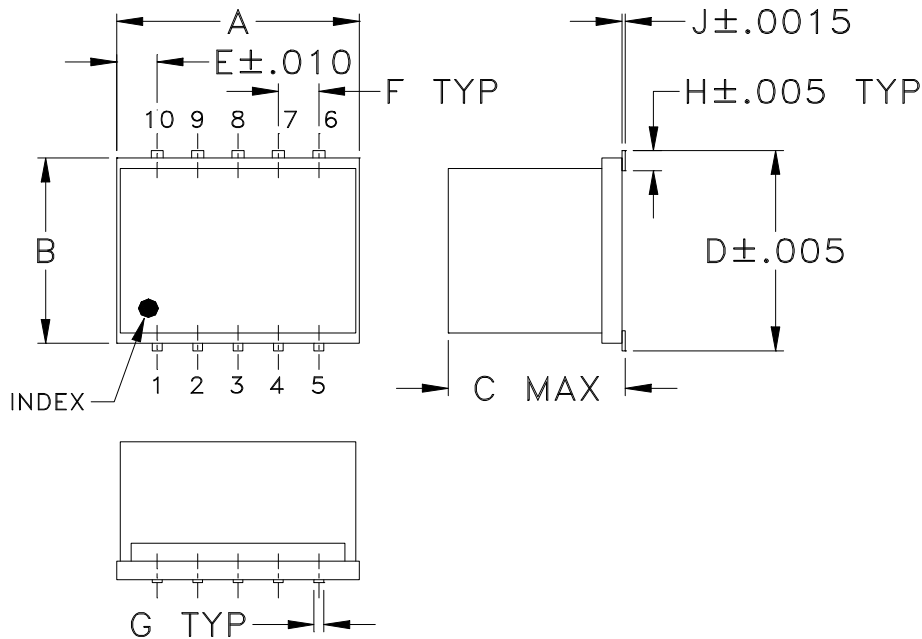
Model	LO level (dBm)	Frequency (MHz)		Conversion Loss (dB) Typ.	RF In @ 1 dB Compr. (dBm) Typ.	IP3 (dBm) Typ.	LO-RF Isolation (dB) Typ.	LO-IF Isolation (dB) Typ.
		LO/RF	IF					
MCA-35LH+	10.0	500-3500	10-1500	6.9	6.0	16	32	30
MCA-50LH+	10.0	1000-5000	10-1500	7.3	6.0	18	35	32
MCA-35MH+	13.0	500-3500	10-1500	6.9	9.0	20	29	29
MCA-50MH+	13.0	1000-5000	10-1500	7.3	9.0	21	34	30
MCA-35H+	17.0	500-3500	10-1500	6.9	14.0	24	30	30
MCA-50H+	17.0	1000-5000	10-1500	7.3	14.0	23	30	30

Protected under U.S. Patent 6,917,796

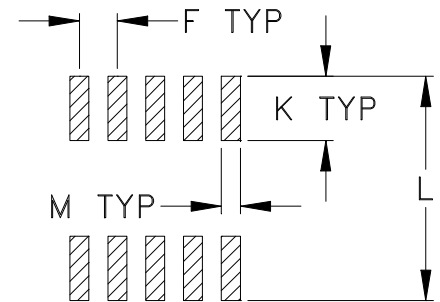
REV. A
ECO-009343
K1-MCA+
MCL NY
210820



Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm.002$

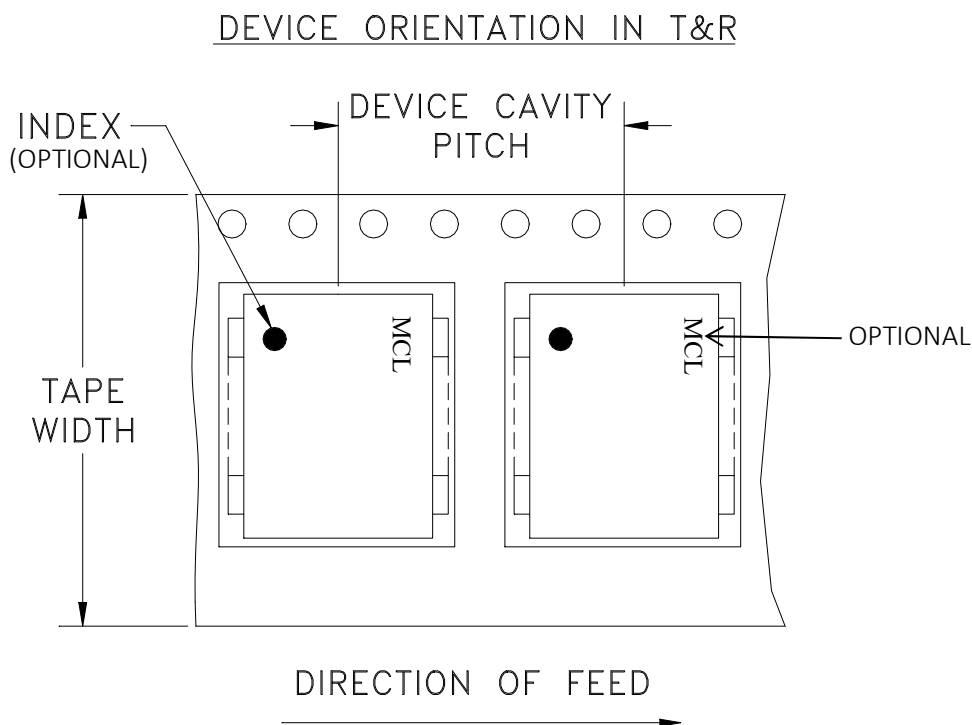
CASE#	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
DZ883	.30 (7.62)	.250 (6.35)	.190 (4.83)	.266 (6.76)	.050 (1.27)	.050 (1.27)	.012 (0.30)	.029 (0.74)	.004 (0.10)	.085 (2.16)	.296 (7.52)	.030 (0.76)	0.5

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm.01$; 3Pl. $\pm.005$

Notes:

- Case material: Ceramic.
- Termination finish:
 - For RoHS Case Styles: Tin plate. All models, (+) suffix.
 - For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.

Tape & Reel Packaging TR-F34



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel see note	
16	12	7	Small quantity standard (see note)	20
				50
				100
				200
		13	Standard	500
				1000

Note: Availability of small reel quantity varies by model.
Refer to pricing and availability on individual model dashboard.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



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

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