

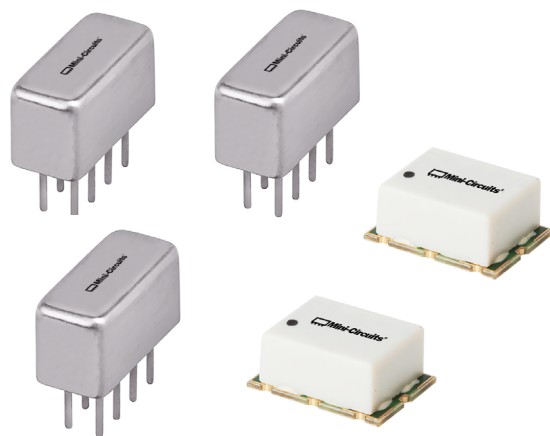


Mini-Circuits®

DESIGNER'S KIT K-PD

Phase Detectors

50Ω 1 to 400MHz



MPD

SYPD

MPD FEATURES

- Wideband, 50Ω
- Input pwr. 50mW max.
- Low DC offset
- High DC output
- High isolation
- Welded metal case
- Hermetically sealed
- Shielded plug-in pkg.

SYPD FEATURES

- Wideband, 50Ω
 - Input pwr. 50mW max.
 - Low DC offset
 - High DC output
 - High isolation
 - Rugged plastic case
 - Miniature SM pkg.
- (L) 0.50" x (W) 0.38" x (H) 0.15"

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



K-PD ELECTRICAL SPECIFICATIONS

(5 models, 1 of each, 5 total)

Model	Frequency Power (MHz)		In (dBm)	Scale Factor	Impedance (ohms) Output	Isolation (dB)	Output Polarity	DC Output* (mV) Ofw				Figure Merit
	RF1	RF2						I	RF1	RF2	Max.	
												Typ.
Plug-In												
MPD-1+	1-100	DC-50	7	8	500	40	neg.	1000	700	0.2	1	143
MPD-2+	10-200	DC-50	7	8	500	40	neg.	1000	700	0.3	1	143
MPD-21+	50-400	DC-50	7	7	500	40**	neg.	800	500	1	120	120
Surface Mount												
SYPD-1+	1-100	DC-50	7	8	500	40	neg.	1000	700	0.2	1	143
SYPD-2+	10-200	DC-50	7	8	500	40	neg.	1000	700	0.3	1	143

*MPD-1+: DC output decreases to 550mV over 1-10MHz as temperature decreases to -55°C.

**MPD-21+: 30dB from 200 to 400MHz

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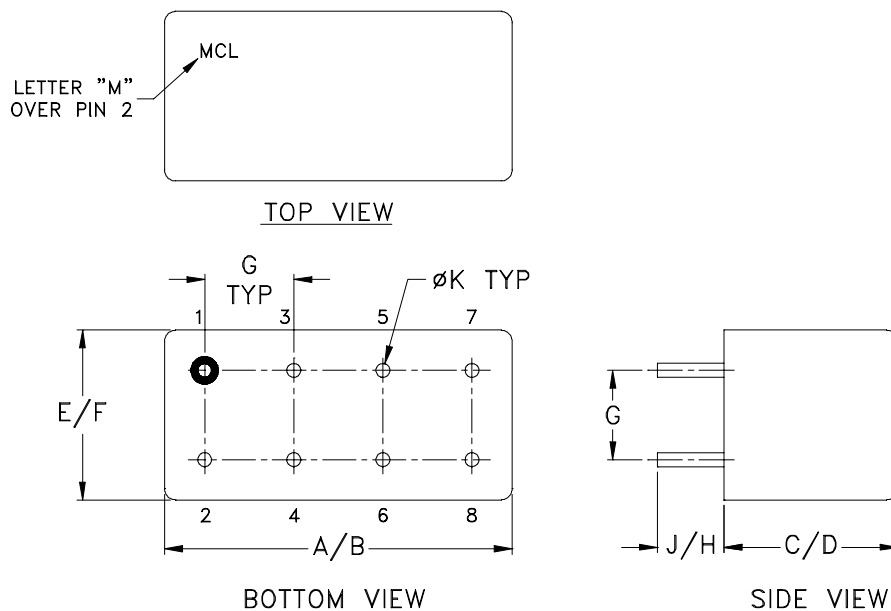
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REV. A
ECO-009382
M106033
K-PD
210823

A03

A11

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	WT, GRAM
A03	.480 (12.19)	.500 (12.70)	.390 (9.91)	.405 (10.29)	.210 (5.33)	.230 (5.84)	.100 (2.54)	.20 (5.08)	.14 (3.56)	.020 (.51)	2.3
A11			.240 (6.10)	.255 (6.48)							1.9

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

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Insulated spacer available. Request P/N B14-047-01.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.



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

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