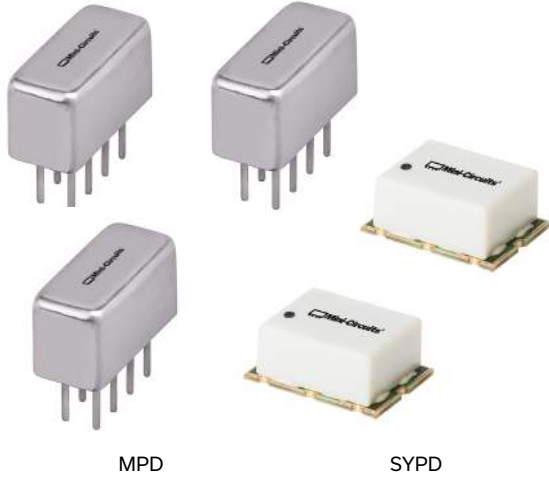




## DESIGNER'S KIT K-PD

# 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"



## 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						Max.	Offset	Typ.	Min.	
	RF1	I	RF1	mV/deg.	Load I	RF1-RF2 Min.	RF1/RF2 In-Phase	Typ.	Min.	Typ.	Max.	Typ.
<b>Plug-In</b>												
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
<b>Surface Mount</b>												
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

