

# Phase Detectors

SCIENTIFIC/ MINI-CIRCUITS

1000mV DC output, + 7dBm RF

## case style selection

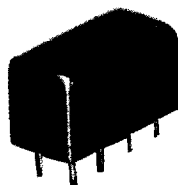
outline drawings see Table of Contents



LPD



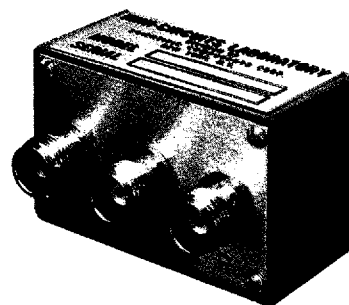
MPD



RPD



SYPD



ZRPD

		FREQUENCY MHz		POWER IN	SCALE FACTOR	IMPEDANCE (ohms) OUTPUT LOAD	ISOLATION (dB)	OUTPUT POLARITY	DC OUTPUT (mV)				FIGURE OF- MERIT M	PRICE \$	DISTRIBUTOR	
MODEL NO.		RF1 RF2	I	RF1 RF2 (dBm)	mV/degree	I	RF1-RF2 Min.	(RF1/RF2) In-phase	Max.		OFFSET		Typ.	Qty. (1-9)	FACTORY	LOCAL
		Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.				
LPD case BB48	LPD-1	1-100	DC-50	+7	8	500	40	neg.	1000	750	0.2	1	143	26.45	●	●
MPD case A11	MPD-1	1-100	DC-50	+7	8	500	40	neg.	1000	750	0.2	1	143	21.45	●	●
	MPD-2	10-200	DC-50	+7	8	500	40	neg.	1000	750	0.3	1	143	24.95	●	●
	MPD-21	50-400	DC-50	+7	7	500	40*	neg.	800	600	0.5	1	120	26.95	●	●
RPD case A01	RPD-1	1-100	DC-50	+7	8	500	40	neg.	1000	750	0.2	1	143	18.45	●	●
	RPD-2	5-150	DC-50	+7	8	500	40	neg.	1000	750	0.3	1	143	20.95	●	●
□ SYPD case TTT167	SYPD-1	1-100	DC-50	+7	8	500	40	neg.	1000	750	0.2	1	143	14.95	●	●
	SYPD-2	10-200	DC-50	+7	8	500	40	neg.	1000	750	0.3	1	143	18.95	●	●
ZRPD case M22	ZRPD-1	1-100	DC-50	+7	8	500	40	neg.	1000	750	0.2	1	143	57.95	●	

RF1=RF input

RF2=RF reference

## NOTES:

□ NON-HERMETIC

\* 30 dB, 200 to 400 MHz

1. Maximum RF input power, 50 mW, peak IF current, 20mA.

2. Refer to Table of Contents for quality control procedures, environmental specifications, absolute maximum ratings, and hi-rel testing.

3. Prices and specifications subject to change without notice.

## NSN GUIDE

MCL NO.

MPD-1

RPD-1

NSN

6625-01-294-7152

5895-01-250-8525

## pin connections

see case style outline drawing

Series		RPD	MPD	LPD	SYPD
RF REF.	RF2	8	8	8	2
RF in:	RF1	1	1	5	1
DC out:	I	*3,4	*3,4	4	3
GND ♦		2,5,6,7	2,5,6,7	1,2,3,6,7	4,5,6
CASE GND.		2	2	1,2,3,6,7	—

♦ Ground externally. All measurements made with GND pin(s) grounded externally.

\* pins must be externally connected together

## schematic

