

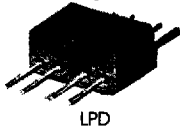
Phase Detectors

SCIENTIFIC/ MINI-CIRCUITS

1000mV DC output, + 7dBm RF

case style selection

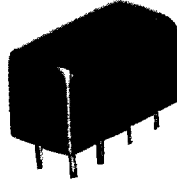
outline drawings see Table of Contents



LPD



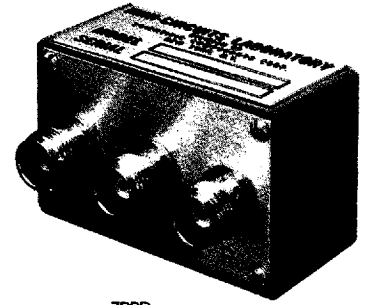
MPD



RPD



SYPD



ZRPD

MODEL NO.	FREQUENCY MHz		POWER IN RF1 RF2 (dBm)	SCALE FACTOR mV/degree	IMPEDANCE (ohms) OUTPUT LOAD	ISOLATION (dB) RF1-RF2 Min.	OUTPUT POLARITY (RF1/RF2 In-phase)	DC OUTPUT (mV)				FIGURE-OF-MERIT M Typ.	PRICE \$ Qty. (1-9)	DISTRIBUTOR		
	RF1	RF2						Max. Typ.	Min.	OFFSET Typ.	Max.			FACTORY	LOCAL	
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 changewithout notice.

NSN GUIDE

MCL NO.	NSN
MPD-1	6625-01-294-7152
RPD-1	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

