

# PHASE DETECTORS

Surface Mount  Plug-In & Coaxial

## High Output 1000 mV DC output, 1 to 400 MHz

SURFACE MOUNT



SYPD



MPD



RPD

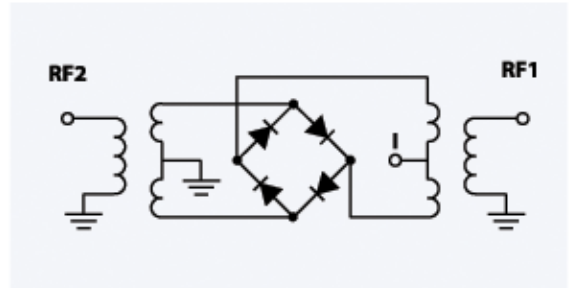


ZRPD

MODEL NO.	FREQUENCY MHz		POWER IN RF1 RF2 (dBm)	SCALE FACTOR mV/deg.	IMPEDANCE (ohms) output load I	ISOLATION (dB) RF1-RF2 Min.	OUTPUT POLARITY RF1/RF2 in-phase	DC OUTPUT (mV) note2				FIGURE-OF-MERIT M Typ.	CASE STYLE Note B	CONNECTION	PRICE \$ Qty. (1-9)
	RF1 RF2	I						Max. Typ.	Min.	Offset Typ.	Max.				
SYPD-1	1-100	DC-50	7	8	500	40	neg.	1000	700	0.2	1	143	TTT167	ec	14.95
SYPD-2	10-200	DC-50	7	8	500	40	neg.	1000	700	0.3	1	143	TTT167	ec	18.95
MPD-1	1-100	DC-50	7	8	500	40	neg.	1000	700	0.2	1	143	A11	ea	21.45
MPD-2	10-200	DC-50	7	8	500	40	neg.	1000	700	0.3	1	143	A11	ea	24.95
MPD-21	50-400	DC-50	7	7	500	40*	neg.	800	500	0.5	1	120	A11	ea	26.95
RPD-1	1-100	DC-50	7	8	500	40	neg.	1000	700	0.2	1	143	A01	ea	18.45
RPD-2	5-150	DC-50	7	8	500	40	neg.	1000	700	0.3	1	143	A01	ea	20.95
ZRPD-1	1-100	DC-50	7	8	500	40	neg.	1000	700	0.2	1	143	M22	gg	57.95

**NOTES:**

- Non-hermetic
- \* 30 dB from 200 to 400 MHz
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in "General Information (Section 0)".
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current rating:
  - 1a. RF Input power, 50mW
  - 1b. Peak IF current, 20mA
- 2. For MPD-1, RPD-1 & ZRPD-1 DC output decreases to 550 mV over 1-10 MHz as temperature decreases to -55°C



**pin connections**

see case style outline drawings for pin locations

PORT	ea	ec	gg
RF REF (RF2)	8	2	1
RF IN (RF1)	1	1	3
DC OUT (I)	3,4	3	2
GND EXT.	2,5,6,7	4,5,6	—
CASE GND	2	—	—

**NSN GUIDE**

MCL NO.	NSN
MPD-1	6625-01-294-7152
MPD-21	5895-01-389-3572
RPD-1	5895-01-250-8525