

DOUBLE BALANCED MIXERS

HIGH INTERCEPT POINT

Please note that since Hi-IP3 mixers for wireless and cellular applications will generally require narrow frequency bands, a series of mixers has been designed that gives input IP3's between 10 and 13 dB above the LO power. For example, an LO power of +17 dBm results in an IP3 of +29 to +30 dBm and +10 dBm of LO power would yield IP3's of +20 to +23 dBm. These mixers are not in the catalog since they are specific to a customer. Please supply your specifications and we will be happy to optimize one of our mixers for your application.

| FREQUENCY RANGE RF / LO (MHZ) | CONVERSION IF (MHZ) | LOSS (dB MAX) | LO DRIVE (dBm) | 1dB COMP. (dBm TYP) | IP3 (See Note 1) (dBm MIN) | ISOLATION | | MODEL |
|-------------------------------------|---------------------------|------------------|----------------------|---------------------------|----------------------------------|-----------|-----|----------|
| | | | | | | L-R | L-I | |
| | | | | | | (dB MIN) | | |
| 1-250 | 1-250 | 7.0 | +10 | +5 | +20 | 40 | 30 | XPL-01-* |
| 1-1000 | 1-1000 | 7.5 | +10 | +5 | +20 | 25 | 20 | XPL-03-* |
| 500-1500 | 50-500 | 7.5 | +10 | +5 | +20 | 30 | 30 | XPL-04-* |
| 800-2000 | 5-1000 | 8.0 | +10 | +5 | +20 | 30 | 30 | XPL-07-* |
| 5-3000 | 5-2000 | 8.5 | +10 | +5 | +20 | 25 | 25 | XPL-10-* |
| 1-250 | 1-250 | 7.0 | +13 | +8 | +22 | 40 | 30 | XPT-01-* |
| 1-1000 | 1-1000 | 7.5 | +13 | +8 | +22 | 25 | 20 | XPT-03-* |
| 500-1500 | 50-500 | 7.5 | +13 | +8 | +22 | 30 | 30 | XPT-04-* |
| 800-2000 | 5-1000 | 8.0 | +13 | +8 | +22 | 30 | 30 | XPT-07-* |
| 5-3000 | 5-2000 | 8.5 | +13 | +8 | +22 | 25 | 25 | XPT-10-* |
| 1-250 | 1-250 | 7.0 | +17 | +12 | +25 | 40 | 30 | XPM-01-* |
| 1-1000 | 1-1000 | 7.5 | +17 | +12 | +25 | 25 | 20 | XPM-03-* |
| 500-1500 | 50-500 | 7.5 | +17 | +12 | +25 | 30 | 30 | XPM-04-* |
| 800-2000 | 5-1000 | 8.0 | +17 | +12 | +25 | 30 | 30 | XPM-07-* |
| 5-3000 | 5-2000 | 8.5 | +17 | +12 | +25 | 25 | 25 | XPM-10-* |
| 1-250 | 1-250 | 7.0 | +23 | +17 | +30 | 40 | 30 | XPH-01-* |
| 1-1000 | 1-1000 | 7.5 | +23 | +17 | +30 | 25 | 20 | XPH-03-* |
| 500-1500 | 50-500 | 7.5 | +23 | +17 | +30 | 30 | 30 | XPH-04-* |
| 800-2000 | 5-1000 | 8.0 | +23 | +17 | +30 | 30 | 30 | XPH-07-* |
| 5-3000 | 5-2000 | 8.5 | +23 | +17 | +30 | 25 | 25 | XPH-10-* |
| 1-250 | 1-250 | 7.0 | +27 | +20 | +34 | 40 | 30 | XPV-01-* |
| 1-1000 | 1-1000 | 7.5 | +27 | +20 | +34 | 25 | 20 | XPV-03-* |
| 500-1500 | 50-500 | 7.5 | +27 | +20 | +34 | 30 | 30 | XPV-04-* |
| 800-2000 | 5-1000 | 8.0 | +27 | +20 | +34 | 30 | 30 | XPV-07-* |
| 5-3000 | 5-2000 | 8.5 | +27 | +20 | +34 | 25 | 25 | XPV-10-* |

* Available In Outline # 102, 108, 301 & A

* Available In Outline # 411 & 414 - SMA Female Conn. Are Standard, No Suffix Required

Outline 411 Is Available With BNC, TNC & N Connectors - Specify By Adding B, T Or N Suffix At End Of Model #

Note: (1) Input IP3 Is For Selected Cellular And Wireless Applications

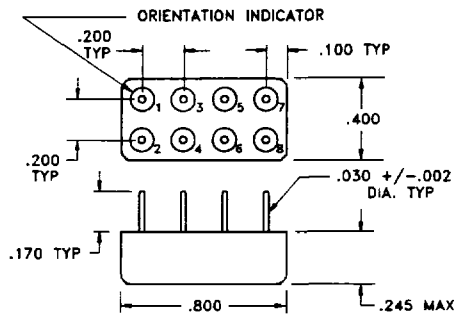
PULSAR MICROWAVE CORPORATION

48 INDUSTRIAL WEST - CLIFTON, NEW JERSEY 07012

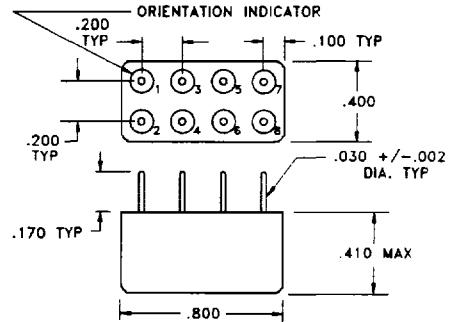
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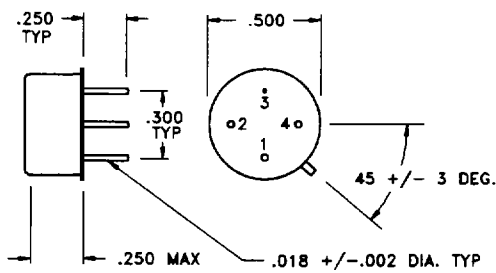
HIGH INTERCEPT POINT



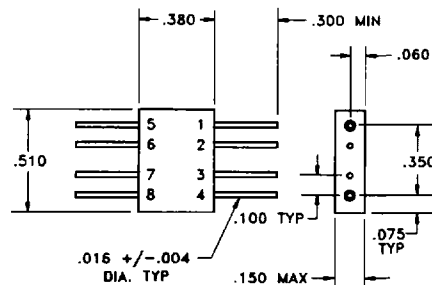
OUTLINE 101



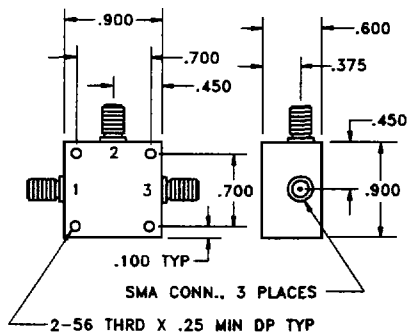
OUTLINE 102



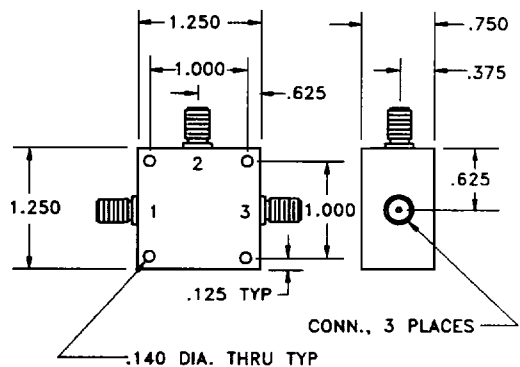
OUTLINE 108



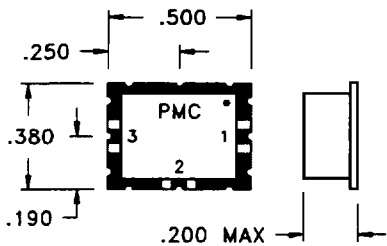
OUTLINE 301



OUTLINE 414



OUTLINE 411



OUTLINE A

PORT CONFIGURATION

| OUTLINE | RF | LO | IF | N/C | GROUND |
|---------|----|----|----|-----|-----------|
| 101 | 1 | 8 | 3 | 4 | 2, 5-7 |
| 102 | 1 | 8 | 3 | 4 | 2, 5-7 |
| 108 | 4 | 2 | 1 | 1 | 3 |
| 301 | 1 | 4 | 5 | - | 2, 3, 6-8 |
| 411 | 1 | 3 | 2 | - | HOUSING |
| 414 | 1 | 3 | 2 | - | HOUSING |
| A | 1 | 3 | 2 | - | 4 CORNERS |

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