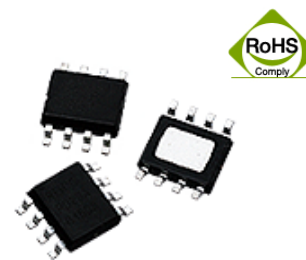


### Product Features

- Passive Integration on Silicon
- Low Insertion Loss
- High Isolation
- Solder Pad
- Good Balance
- Low Cost
- Pb Free / RoHS Compliant

### Application

- Repeater
- Base Station
- RF Sub-Systems



Package : SOIC-8

### Description

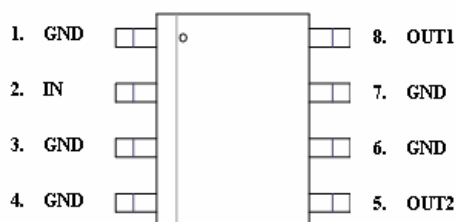
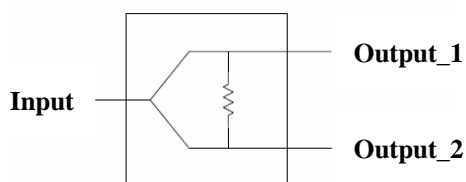
The 2 way power divider is low loss, high isolation, good matching, and phase / amplitude.

The PD23C2 is a monolithic two-way in phase hybrid junction tuned for the 2200~2400MHz band.

### Specifications at 25 °C

| PARAMETER            | Units | Min  | Typ | Max  |
|----------------------|-------|------|-----|------|
| Frequency Range      | MHz   | 2200 |     | 2400 |
| Insertion Loss       | dB    |      | 0.3 | 0.5  |
| Input Return Loss    | dB    | 20   | 22  |      |
| Output Return Loss   | dB    | 20   | 27  |      |
| Isolation            | dB    | 20   | 27  |      |
| Phase difference     | Deg.  |      | 1   | 3    |
| Amplitude difference | dB    |      | 0.1 | 0.3  |
| Remarks              | MHz   | 2300 |     |      |

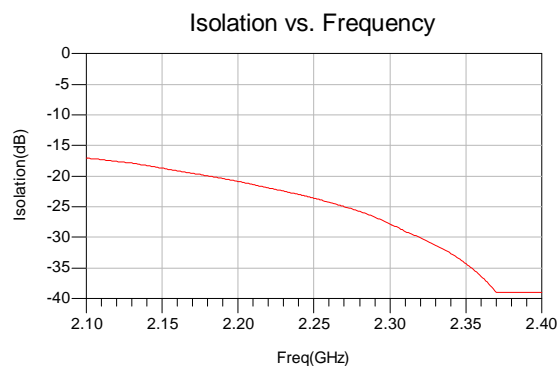
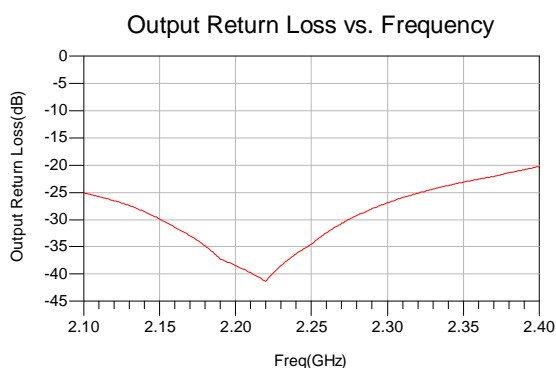
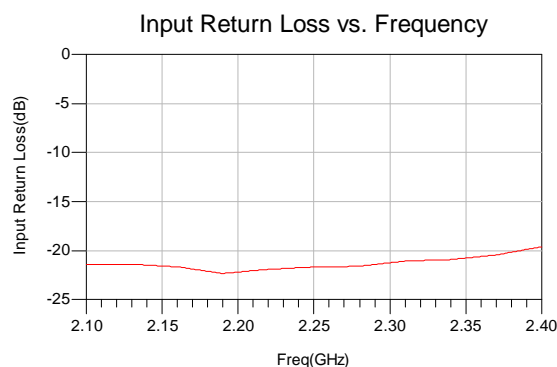
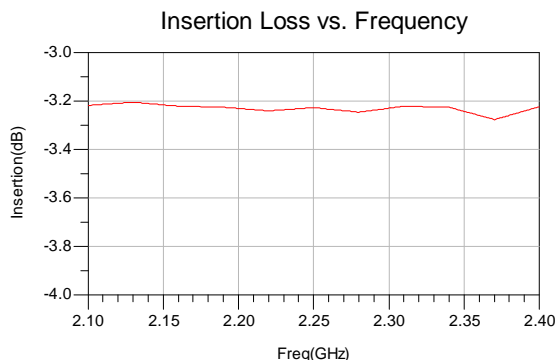
### Block Diagram & Pin Out



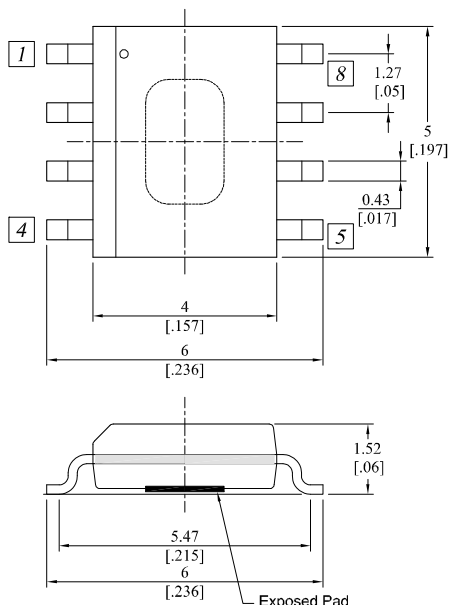
### Absolute Maximum Ratings

| Parameter             | Value          |
|-----------------------|----------------|
| Input Power           | 2 W            |
| Operating Temperature | -40 ~ +85 °C   |
| Storage Temperature   | -65 ~ + 150 °C |

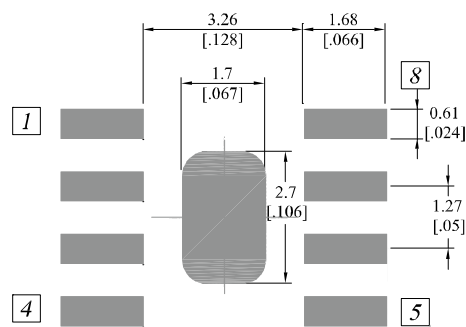
### Typical Performance Data at 25°C (SOIC-8 Package)



### Package Dimensions (Type: SOIC-8)



### Recommended Pattern



|  |                                    |
|--|------------------------------------|
| Unit : $\frac{\text{mm}}{\text{[inch]}}$ | Tolerance : $\pm \frac{0.2}{.008}$ |
|--|------------------------------------|

RFHIC Corporation (RFHIC) reserves the right to make changes to any products herein or to discontinue any product at any time without notice. RFHIC do not assume any liability for the suitability of its products for any particular purpose, and disclaims any and all liability, including without limitation consequential or incidental damages. The product specifications herein expressed have been carefully checked and are assumed to be reliable. However, RFHIC disclaims liability for inaccuracies and strongly recommends buyers to verify that the information they are using is current before placing purchase orders. RFHIC products are not intended for use in life support equipment or application where malfunction of the product can be expected to result in personal injury or death. Buyer uses or sells such products for any such unintended or unauthorized application, buyer shall indemnify, protect and hold RFHIC and its directors, officers, stockholders, employees, representatives and distributors harmless against any and all claims arising out of such use. RFHIC's liability under or arising out of damages, claims of whatsoever kind and nature which RFHIC products could cause shall be limited in amount to the net purchase price of the products sold to buyer by RFHIC.