

## Features

- Low Cost
- Industry Standard 1 Inch Drop-in package
- Designed for Wireless Telecom Systems
- 50 Ohms Characteristic Impedance

## Description

The PC1843DG-21 is a small low cost drop-in circulator designed for applications in high performance linear power amplifiers for wireless base stations. These circulators feature a robust construction for high reliability with excellent IMD performance. CCW rotation and special tab offsets available on request. S-Parameters are also available on request.

## DROP-IN CIRCULATOR



## Specifications

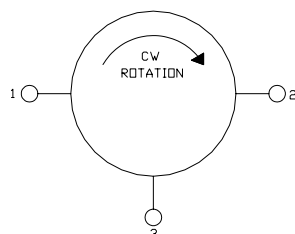
| Parameter                 | Minimum | Typical | Maximum |
|---------------------------|---------|---------|---------|
| Frequency Range (MHz)     | 1805    |         | 1880    |
| Insertion Loss (dB)       |         | < .17   | .30     |
| Isolation (dB)            | 20      | >25     |         |
| Return Loss (dB)          | 20      | >25     |         |
| IMD (dBc) 2T x 37.5 Watts | -70     | -75     |         |

Note: Typical values represent Mid-band performance @ 25°C.

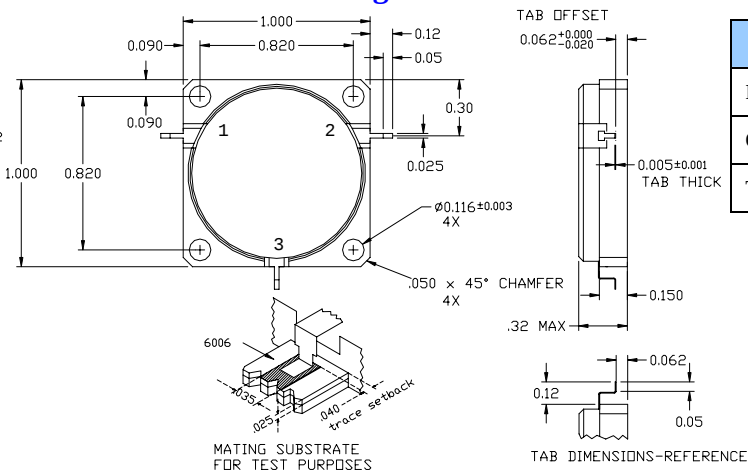
## Absolute Maximum Ratings

| Parameter             | Maximum       |
|-----------------------|---------------|
| Power                 | 100 Watts CW  |
| Operating Temperature | -40 to +85 °C |
| Storage Temperature   | -40 to +85 °C |

## Schematic



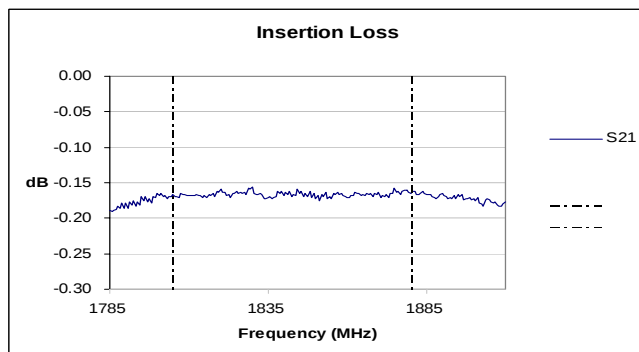
## Package



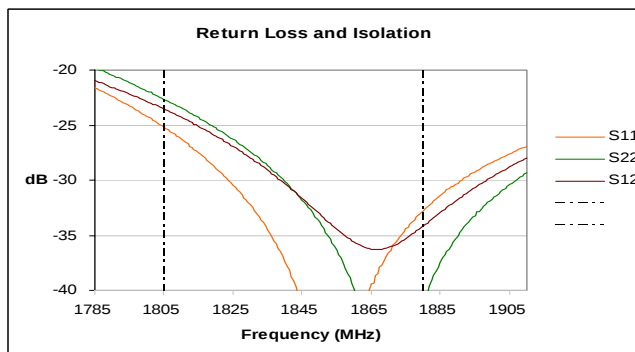
## Pin Functions

| Function   | Pin |
|------------|-----|
| INPUT      | 1   |
| OUTPUT     | 2   |
| TERMINATED | 3   |

## Typical Test Data – Insertion Loss



## Typical Test Data – Return Loss and Isolation



Specifications and information on this data sheet are subject to change without notice.