

**Features**

- Maximum power Rating : 1W (CW)
- Low insertion loss, High isolation
- Perfect phase/Amplitude balance
- 50 Ω impedance
- Hermetic TO-8A , SC04 packages
- Operating temperature range:-55°C ~ +85°C

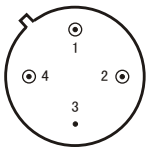
**Specifications**( measured in a 50 Ω system TA=-55°C ~ +85°C)

Parameter number	Frequency Range MHz	Insertion loss dB (Max)	Isolation dB (Min)	Phase Balance deg (Max)	Amplitude Balance dB (Max)	VSWR (Max)
PD-50	1~100	1.2	21 △	2° △	0.8	1.5 : 1
PD-180	10~500	1.8	20 △	4° △	1.0	1.5 : 1
PD-50S	1~100	1.2	21 △	3° △	0.8	1.5 : 1
PD-180S	10~500	1.8	20 △	4° △	1.0	1.5 : 1

“ △ ” Measured at Tc=24±1°C

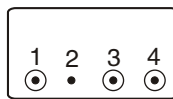
**Absolute Maximum Ratings**

Input Power: 1W  
Storage Temp: +125°C



TO-8A

- 1.Input
- 2.Output (+180° )
- 3.GND
- 4.Output (0° )



SC04

- 1.Input
- 2.GND
- 3.Output (+180° )
- 4.Output (0° )

**Application Notes**

- 1.Input/output pins should be connected to 50 Ω microstrip.
- 2.See assembly section for mounting information
- 3.PD-50/PD-180: TO-8A package  
PD-50S/PD-180S: SC04package
- 4.SP-3 package available

**Typical Performance**

