



P/N	Frequency	Bandwidth
●PDN-30	30MHz	28.5~31.5MHz
●PDN-60	60MHz	57.0~63.0MHz
●PDN-120	120MHz	114~126MHz
●PDN-600	600MHz	570~630MHz
●PDN-800	800MHz	760~840MHz
●PDN-1.6G	1600MHz	1520~1680MHz
●PD2-2.2G	2200MHz	2090~2310MHz
●PD2-***	5~2200MHz	$f_0 \pm 5\%$

**Features**

- Perfect phase/Amplitude balance
- 50 Ω impedance
- Hermetic TO-8A-1 package
- Operating temperature range:-55°C ~ +85°C

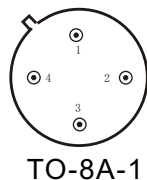
**Specifications**( measured in a 50 Ω system  $T_A = -55^\circ\text{C} \sim +85^\circ\text{C}$ )

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	$f_L \sim f_H$	MHz	$f_0 \pm 5\%$	$f_0 \pm 7.5\%$
Coupling	Coupling	dB	----	-3
Insertion loss	I.L	dB	1.2(Max)	0.6
Isolation	Iso	dB	18 (Min) Δ	22
Phase Balance	Δ P	deg	4° (Max) Δ	2°
Amplitude Balance	Δ M	dB	1.0(Max)	0.6
VSWR	VSWR	----	1.5:1(Max)	1.3:1

“ Δ ” Measured at  $T_c = 24 \pm 1^\circ\text{C}$

**Absolute Maximum Ratings**

Input Power: 1W  
Storage Temp+125°C



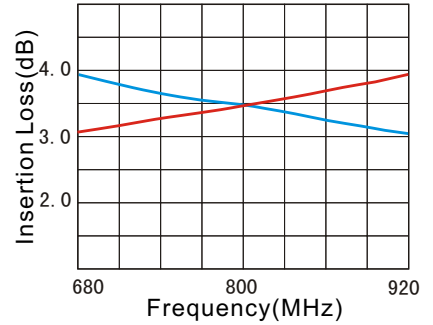
- 1.Output (+90°)
- 2.Input
- 3.Isolation port connected to 50 Ω load
- 4 Output (0°)

**Application Notes**

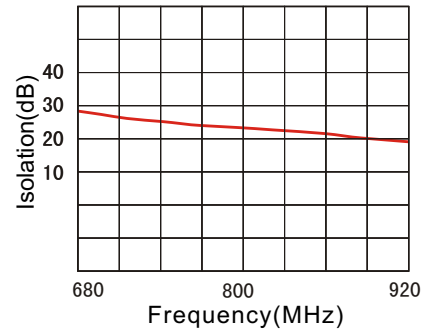
- 1.Input/output pins should be connected to 50 Ω microstrip.
- 2.See assembly section for mounting information

**Typical Performance**  
**PDN-800**

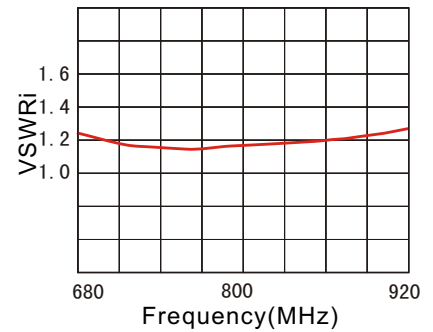
Insertion Loss vs. Frequency



Isolation vs. Frequency



VSWRi vs. Frequency



VSWRo vs. Frequency

