



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

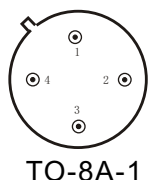
Specifications (measured in a 50 Ω system $T_A = -55^\circ\text{C} \sim +85^\circ\text{C}$)

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	ΔP	deg	4° (Max) Δ	2°
Amplitude Balance	ΔM	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



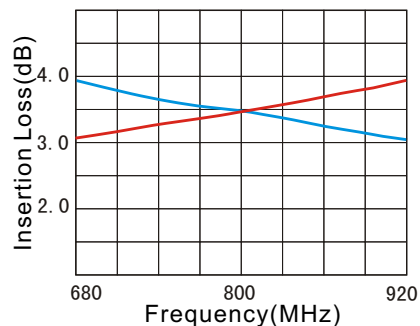
1. Output (+90°)
2. Input
3. Isolation port connected to 50 Ω load
4. Output (0°)

Application Notes

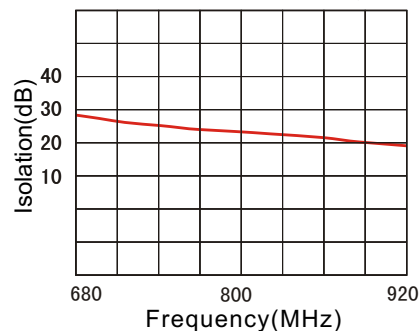
1. Input/output pins should be connected to 50 Ω microstrip.
2. See assembly section for mounting information

Typical Performance PDN-800

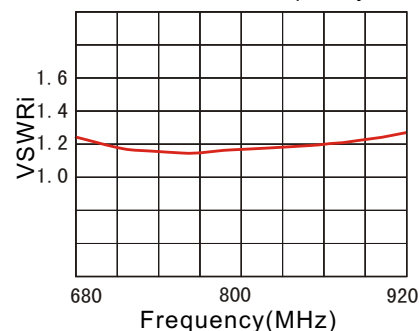
Insertion Loss vs. Frequency



Isolation vs. Frequency



VSWRi vs. Frequency



VSWRo vs. Frequency

