



Features

- Broad bandwidth 2.0~20GHz
- Perfect phase/amplitude balance
- 50 Ω impedance
- Low insertion loss, High isolation
- Operating temperature range: -55°C ~ +85°C

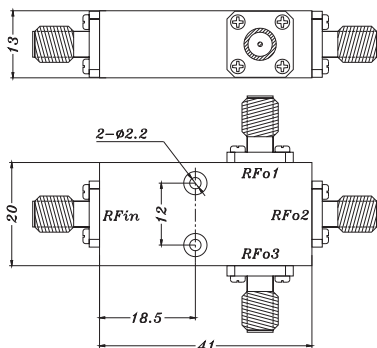
Specifications (measured in a 50 Ω system $T_A = +25^\circ\text{C}$)

Parameter	Symbol	Unit	Guaranteed		Typical	
Frequency Range	$f_L \sim f_H$	GHz	2~8	8~20	2~8	8~20
Insertion Loss	I.L	dB	1.0(Max)	1.3(Max)	0.5	0.8
Isolation	Iso	dB	20(Min)	15(Min)	22	20
Phase Balance	ΔP	deg	$\pm 3^\circ$	$\pm 4^\circ$	$\pm 1^\circ$	$\pm 2^\circ$
Amplitude Balance	ΔM	dB	0.6(Max)	1.0(Max)	0.4	0.4
VSWR	VSWR	--	2.0:1(Max)	2.0:1(Max)	1.5:1	1.5:1

Absolute Maximum Ratings

Input Power: 5W

Storage Temp: +125°C



Application Notes

1. Input/output pins should be connected to 50 Ω microstrip.
2. When the input power is maximum the output load VSWR < 1.2 is required.

Typical Performance

