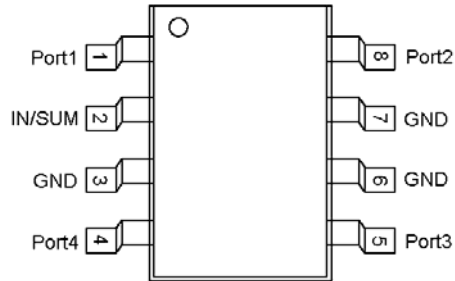


➤ **Product feature** ver1.04

- 1, Low cost
- 2, Excellent amplitude, excellent phase balance
- 3, Both SOIC-8 type package and spool package with positive voltage controlling are available



➤ **Product description**

D19-4 is a GaAs monolithic doplex-feeding homophase power splitter/hybridizer which could be applied to 1.71-1.99GHz frequency band, it uses SOIC-8 plastic package. It has features like highly isolated, low insertion loss, excellent matching in input/output. D19-4 can be used in different communication systems, like mobile, GSM/CDMA base station etc..

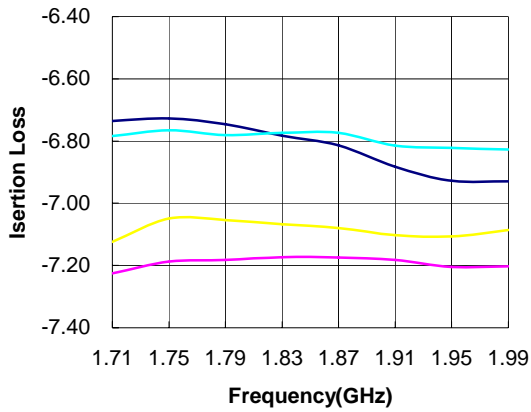
➤ **Typical electronic feature (at 25°C)**

Feature <sup>1</sup>	Min	Typic	Max	Unit
Frequency	1.71		1.99	GHz
Insertion loss(6dB or above)		0.8	1.3	dB
Percentage Isolating	18	23		dB
Input VSWR		1.3:1	1.6:1	
Output VSWR		1.2:1	1.5:1	
Amplitude H.L.B		±0.4	±0.5	dB
Phase position H.L.B			±15	Deg.

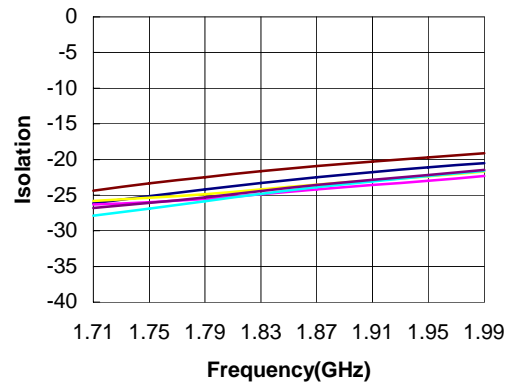
1. All tests should be finished under system 50Ω except special specification.

➤ Typical feature graphic chart

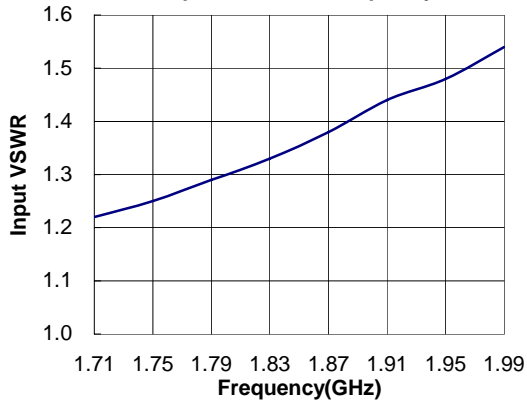
**Insertion Loss VS Frequency**



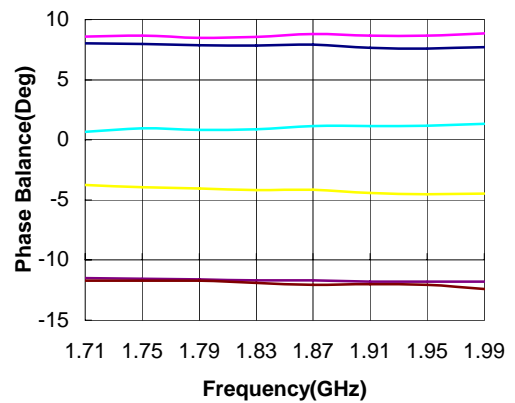
**Isolation VS Frequency**



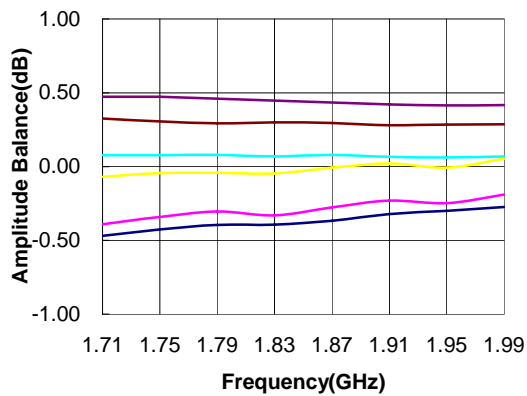
**Input VSWR VS Frequency**



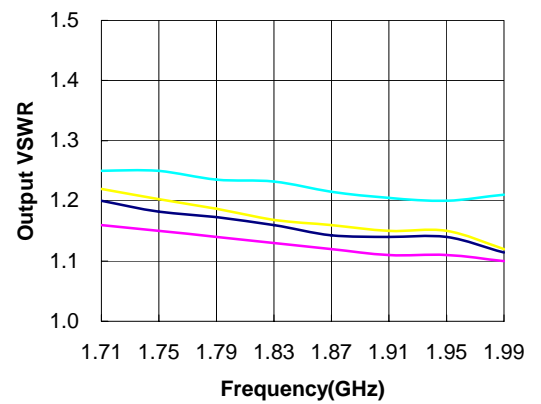
**Phase Balance VS Frequency**



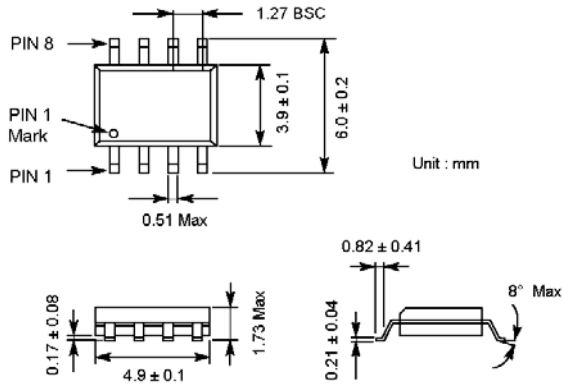
**Amplitude Balance VS Frequency**



**Output VSWR VS Frequency**



➤ **SOIC-8 outline drawing**



➤ **Absolute maximum rating<sup>1</sup>**

Subject	Value
Input power <sup>1</sup>	1.5W
Input power <sup>2</sup>	0.375W
Operate temperature	-40°C ~ 85°C
Storage temperature	-65°C ~ 150
$\theta_{JC}$	25°C/W

1. The max SWR is 2.0:1 for all ends when it is used as power splitter;
2. The max SWR is 2.0:1 for all ends when it is used as power hybrider.