

Diplexer

WGDP-2400/4900-1608

2400-2500MHz /4900-5850MHz

Ver. A
2025.06.18

Maximum Rating

Operating Temperature

-40℃~+85℃

Storage Temperature

-40℃~+85℃

RF Input Power

1W max at 25℃

Pin Connections

Low Band Port

3

High Band Port

1

Common Port

2

Ground

4

Dimension & Layout

Max Length--L(mm).	1.60±0.15.
Max Width--W(mm).	0.80±0.15.
Max Height--H(mm).	0.60±0.05.

[Top view]

[Bottom view]

Pad Dimension: 0.3*0.15mm

Features

● High Performance

● 2400-2500MHz /4900-5850MHz

Whole work band

● New circuit topology for excellent return loss and low insertion loss

● High balance performance on LTCC Technology

RoHS Compliant

Functional Schematic

Frequency Characteristics

Low-Band						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	2400-2500	---	0.27	0.40	dB
	Return Loss	2400-2500	13	20	---	dB
Stop Band	Attenuation	4900-5850	20	24	---	dB
In/Output Impedance		50				Ω
High-Band						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	4900-5850	---	0.45	0.6	dB
	Return Loss	4900-5850	10.5	14	---	dB
Stop Band	Attenuation	2400-2500	20	36.5	---	dB
In/Output Impedance		50				Ω
Common						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Return Loss		2400-2500 4900-5850	13 11	20 14	---	dB
In/Output Impedance		50				Ω

Notes

a. The specifications are tested at 25℃±5℃, relative humidity 55~75%.

b. Other quality and characteristic not specify in this datasheet.

Please contact us for detail requirements.