

Technical proposal for JX-BC-4.8G6G-20NWP Bridge

- ◆ IP67 Protection
- ◆ High Performance
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/05/17	Lin liqun	Created	/
V1.1	2019/05/20	Lee	Update the dimension and specification	Customer request
V1.2	2019/09/12	Lee	Updated the mechanical specifications	1: RAL9016 Traffic white; 2: Add air permeability valve structure; 3: Connector position moved up and product height increased; 4: Product lettering increases
V1.3	2019/10/29	Lee	Delete air permeability valve structure	Customer request
V1.4	2019/10/31	Lee	Add label position on the top of the product	Customer request

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

Table of content

Technical proposal for JX-BC-4.8G6G-20NWP Bridge.....	1
1. Mechanical layout.....	2
2. Electrical analysis.....	3
2.1 Electrical specifications	3
2.2 The simulation curve	4

Figures

Figure 1 JX-BC-4.8G6G-20NWP front panel layout.....	3
Figure 2 The simulation curve of amplitude balance, isolation and VSWR.....	4

Tables

Table 1 Mechanical specifications	2
Table 2 Electrical specifications.....	3

1. Mechanical layout

Table 1 Mechanical specifications

Item	Parameter	Specification	
1	Dimension	LxWxH: 88mm x 40mm x 29.5mm	
2	Port connectors	N-Female (Material and plating)	
		Outer conductor	Brass; Albaloy plating/Powder spraying
		Inner conductor	Spring cooper; Ag 5 μm plating
3	Finish	Traffic white, Akzo Nobel RA9016, Powder spraying	
4	Fixation holes	4 x φ4.5; Material:Aluminum; Plating:Powder spraying	
5	IP protection	IP67	
6	Salt mist	EN 60068-2-11 / Ka Cass ST4	
7	Altitude	4200m	
8	Shock	Sawtooth pulse acc. AREMA 11.5.1 / 20G 11ms	
9	Vibration	5G 5Hz to 200Hz, 2.5G 5Hz to 2000Hz	
10	Humidity	95%RH 2cycles 2 24H 25°C to 55°C according to EN50155:2017 cyclic damp heat test (13.4.7)	
11	Notes	Material shall be RoHS 6/6 and REACH compliant	

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

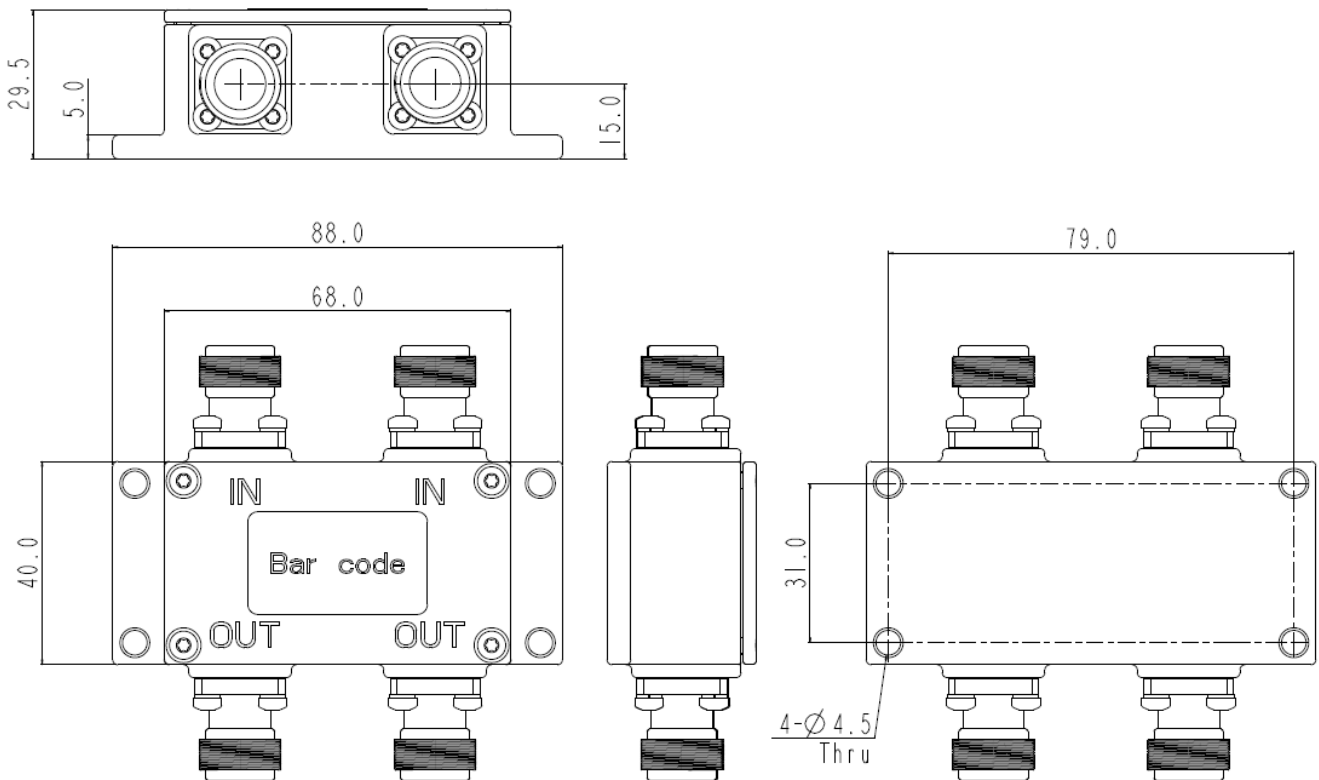


Figure 1 JX-BC-4.8G6G-20NWP front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications

Item	Parameter	Specification
1	Frequency range	4.8-6GHz
2	Insertion loss	≤3.5dB
3	Return loss	≥15.6dB (type 17.7dB)
4	Isolation	≥22dB (type 25dB)
5	Amplitude balance	±0.5dB
6	Phase balance	±5°
7	Power	20W
8	Impedance	50Ω
9	Temperature range	-40°C to +85°C

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

2.2 The simulation curve

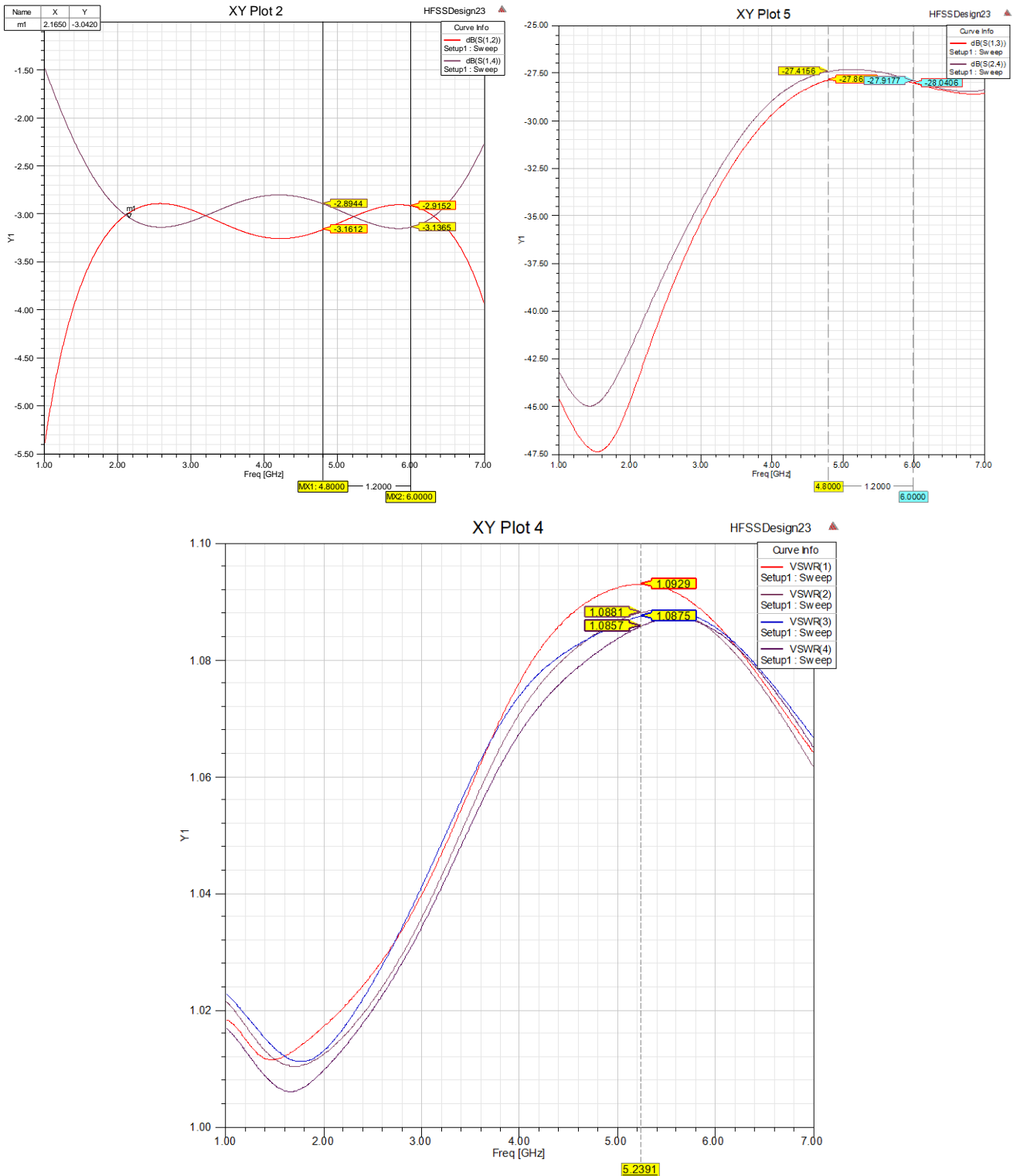


Figure 2 The simulation curve of amplitude balance, isolation and VSWR

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.