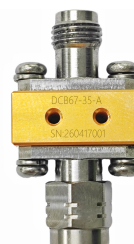


100kHz~67GHz 32dBm 50Ω 1.85-male/1.85-female 35V

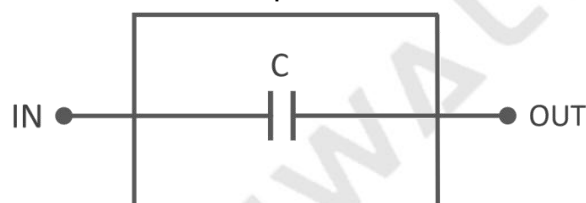
Product Features

- 100kHz~67GHz operating frequency
- Low VSWR, 1.3:1@100kHz~67GHz Typ.
- DC voltage value, 35V DC@100kHz~67GHz Max.
- Excellent insertion loss, $\leq 1.2\text{dB}$ @100kHz~67GHz
- High through power, 32dBm@100kHz~67GHz Max.
- Good Group Delay Ripple, $\pm 50\text{ps}$ @100kHz~67GHz Typ.



Product Overview

DCB67-35 is a compact, high performance and small footprint DC Block supporting a range of applications from 100kHz to 67GHz. This model provides low insertion loss, excellent VSWR and Group Delay Ripple. It is often used to protect sensitive RF components from direct current, or to protect precision instruments and equipment from damage caused by the entry of direct current. It is the RoHS compliant successor of the DCB67.



Product schematic

Typical Applications

- Optical Communications
- Satellite Communications
- Data Transmission
- High-Speed Pulse Experiments
- Research and Development
- Antenna Measurements

Configurations

- DCB67-35-A - Input port: 1.85mm male, Output port: 1.85mm female
- DCB67-35-B - Input port: 1.85mm female, Output port: 1.85mm female
- DCB67-35-C - Input port: 1.85mm male, Output port: 1.85mm male

There are three configurations of this DC-Block. The model DCB67-35-A is used as an example in this datasheet. For more information, please refer to the Physical Dimensions section.

Specifications

RF Electrical Specifications:					
Item	Condition	Min.	Typ.	Max.	Units
Frequency Range	-	0.1	-	67000	MHz
Nominal Impedance	100kHz~67GHz	-	50	-	Ω

VSWR	IN VSWR	-	1.3	1.6	:1
	OUT VSWR	-	1.3	1.6	:1
Insertion Loss	100kHz~67GHz	-	0.7	1.2	dB
Group Delay Ripple	100kHz~67GHz	-	±50	-	ps
Operating RF input Power	100kHz~67GHz	-	-	32	dBm
DC Voltage	-	-	-	35	V

Mechanical Specifications:

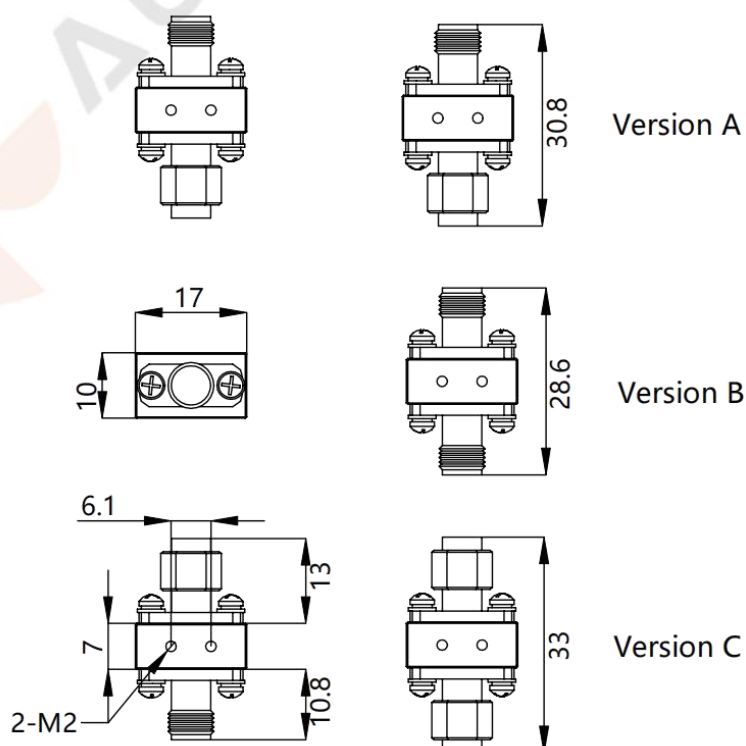
Item	Spec.	Units
Connectors	1.85-male/1.85-female	-
Physical Dimensions(L*W*H)	17 * 30.8 * 10	mm
Net Weight	≈16.9	g
Material	Aluminium alloy&Copper	-
Surface Finish	Conductive oxidation&Gold-plated copper	-
Color	Aluminium color&Golden	-

* Note: Package Dimensions & Gross Weight are subject to the actual delivery.

Other Specifications:

Item	Spec.	Units
Operating Temperature	-20~+60	°C
Storage Temperature	-45~+85	°C
Humidity range	<95%@40°C	%rh

Physical Dimensions (Unit:mm)



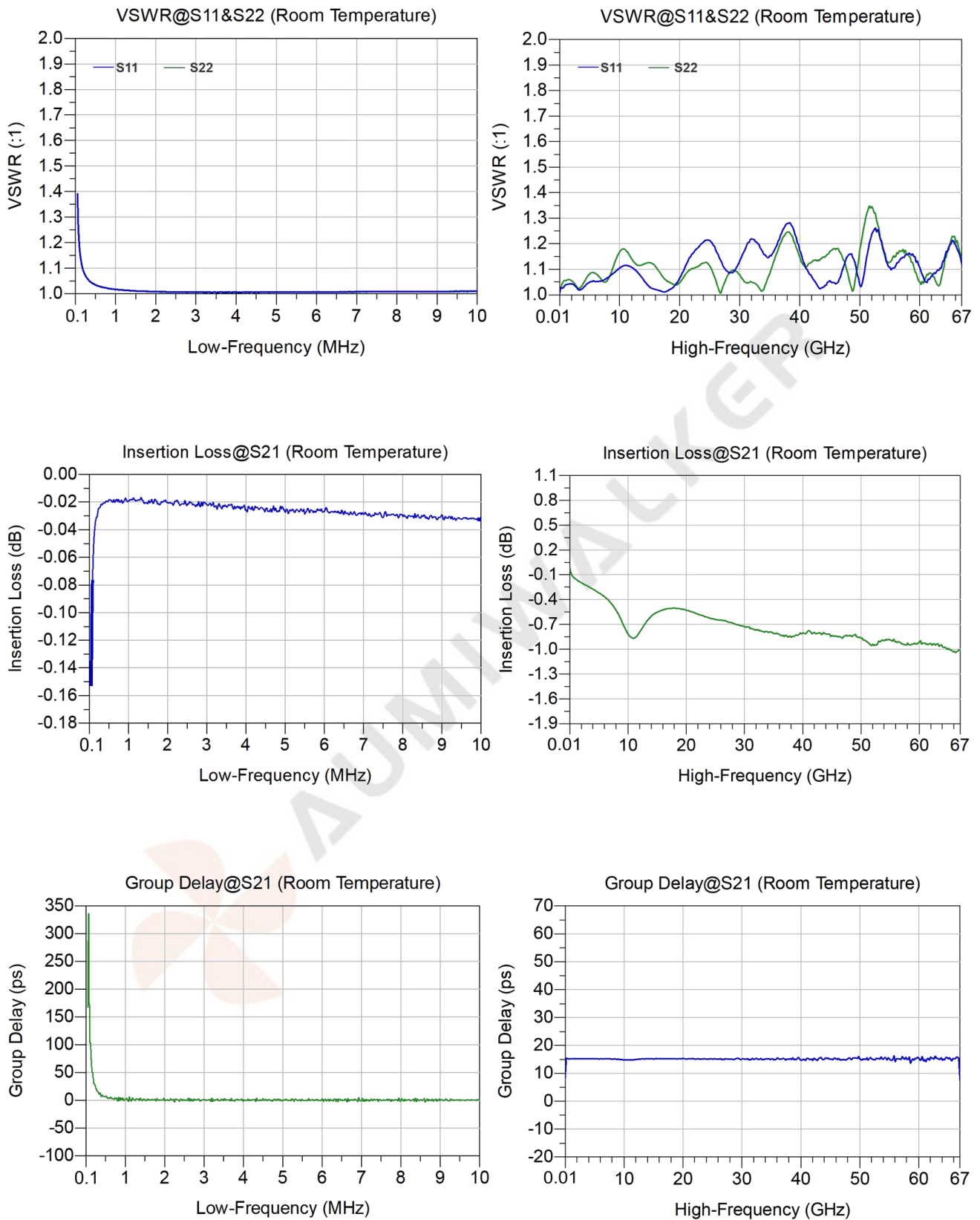
Interface Information

Interface definition:		
NO.	Function	Description
1	IN	RF input port
2	OUT	RF output port

* Note: Please refer to the physical dimensions of the corresponding ports.

Typical Performance Data

Freq.(MHz)	VSWR (:1)		Insertion Loss (dB)
	IN VSWR	OUT VSWR	IN-OUT
0.05	1.44	1.44	-
1	1.02	1.02	-0.30
4	1.01	1.01	-0.32
7	1.01	1.01	-0.32
10	1.00	1.01	-0.03
400	1.04	1.03	-0.11
700	1.05	1.04	-0.13
1000	1.06	1.04	-0.15
4000	1.05	1.03	-0.28
7000	1.06	1.05	-0.44
10000	1.17	1.11	-0.82
14000	1.12	1.06	-0.60
17000	1.08	1.01	-0.51
20000	1.05	1.07	-0.53
24000	1.12	1.21	-0.62
27000	1.02	1.13	-0.67
30000	1.08	1.13	-0.73
34000	1.02	1.16	-0.80
37000	1.21	1.24	-0.83
40000	1.15	1.18	-0.81
44000	1.15	1.03	-0.82
47000	1.16	1.09	-0.84
50000	1.18	1.04	-0.87
54000	1.17	1.17	-0.90
57000	1.17	1.15	-0.94
60000	1.05	1.11	-0.92
64000	1.11	1.13	-0.98
67000	1.14	1.12	-1.01



* **Note:** The above is typical data and is not used as an acceptance reference.