

Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers



GENERAL DESCRIPTION RFAP TECHNOLOGY

The DB0603N 3dB 90° Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

The RFAP LGA 3dB 90° Coupler will be offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- Balanced Amplifiers and Signal Distribution in Wireless Communications

FEATURES

- Miniature 0603 size
- Low I. Loss
- High Isolation
- Surface Mountable
- RoHS Compliant
- Supplied on T&R
- Power Rating:
10W RF
Continuous

LAND GRID ARRAY ADVANTAGES:

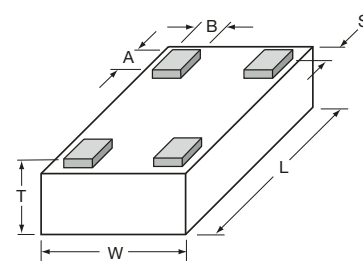
- Inherent Low Profile
- Self Alignment during Reflow
- Excellent Solderability
- Low Parasitics
- Better Heat Dissipation

DIMENSIONS:

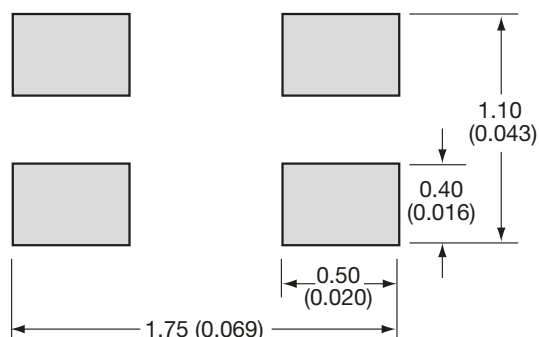
millimeters (inches)

L	1.60±0.10 (0.063±0.004)
W	0.84±0.10 (0.033±0.004)
T	0.60±0.10 (0.024±0.004)
A	0.25±0.05 (0.010±0.002)
B	0.20±0.05 (0.008±0.002)
S	0.05±0.05 (0.002±0.002)

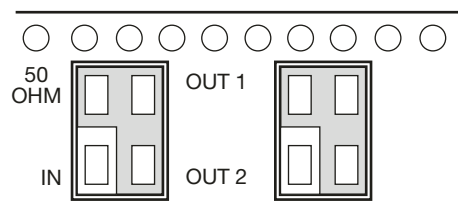
Bottom View



Recommended Pad Layout Dimensions mm (inches)



ORIENTATION IN TAPE



ELECTRICAL PARAMETERS

Part Number	Frequency MHz		Port Impedance Ω	Return Loss [dB]		Isolation [dB]		Insertion Loss [dB]		Amplitude Balance [dB]		Phase Balance (Relative to 90°) Deg		Power Handling Watts
	Min.	Max.		Min.	Typ.	Min.	Typ.	Typ.	Max.	Typ.	Max.	Typ.	Max	
DB0603N2140ANTR	2040	2240	50	15	26	15	23	0.30	0.40	0.50	0.80	2	3	10
DB0603N2400ANTR	2300	2500	50	12	17	15	23	0.25	0.35	0.30	0.80	2	3	10
DB0603N2600ANTR	2400	2800	50	12	17	15	23	0.25	0.35	0.30	0.80	2	3	10
DB0603N3000ANTR	2850	3150	50	12	15	15	26	0.20	0.30	0.30	0.80	2	3	10
DB0603N3500ANTR	3300	3700	50	12	15	15	26	0.20	0.30	0.30	0.80	2	3	10
DB0603N4600ANTR	4200	5000	50	12	16	12	15	0.50	0.70	0.40	1.00	1.5	3	10
DB0603N5500ANTR	5100	5900	50	12	16	10	14	0.60	0.80	0.80	1.50	1	3	10
DB0603N5800ANTR	5600	6000	50	12	16	12	17	0.40	0.90	0.30	0.90	2	3	10

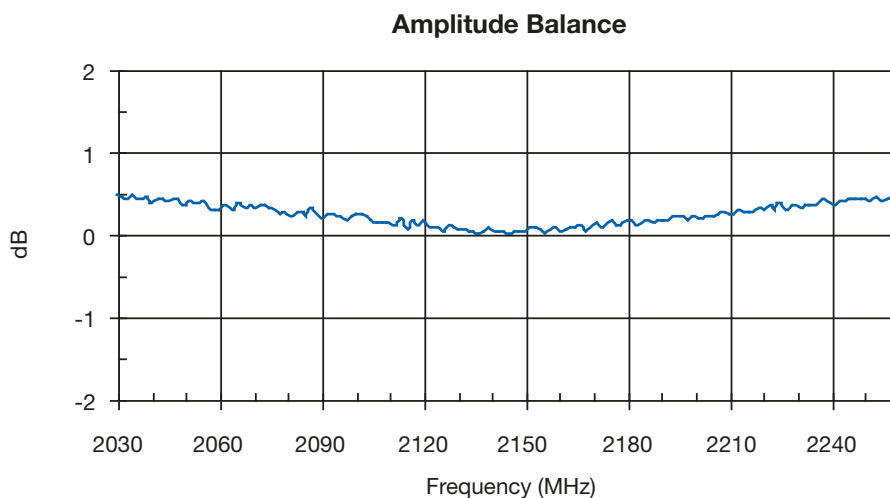
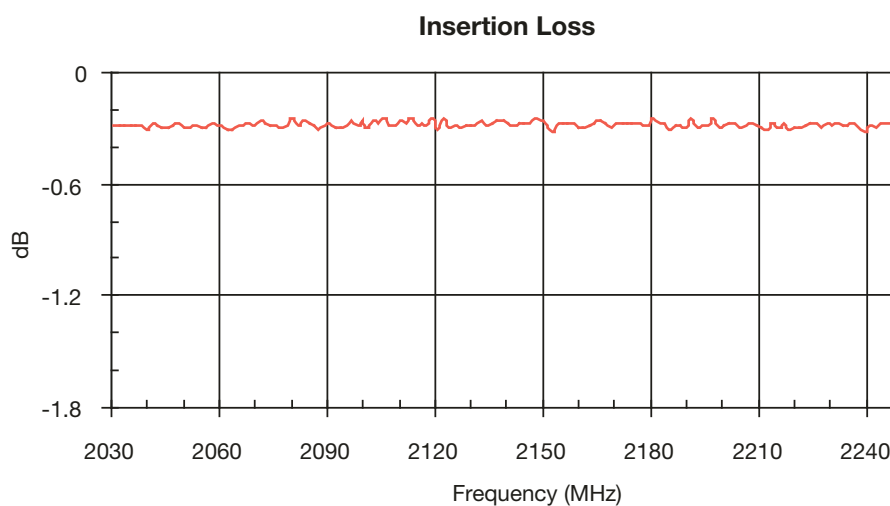
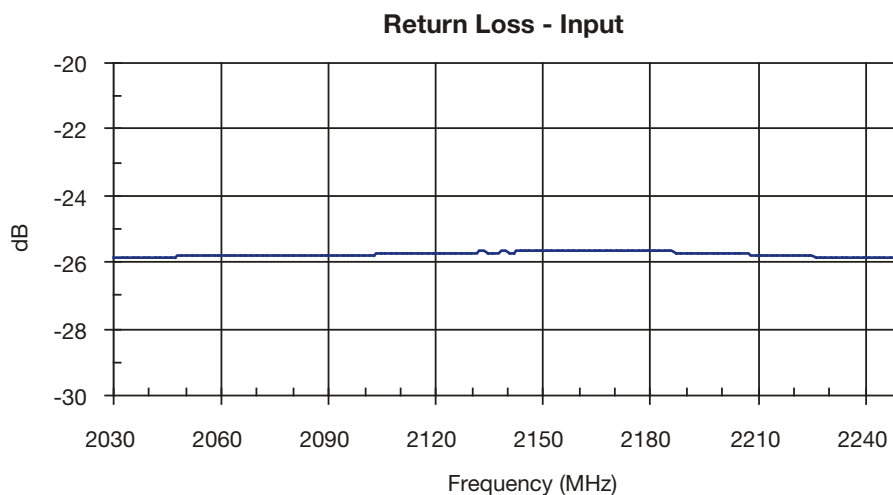
NOTE: Additional Frequencies Available Upon Request

Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers



2040MHz to 2240MHz DB0603N2140ANTR



3

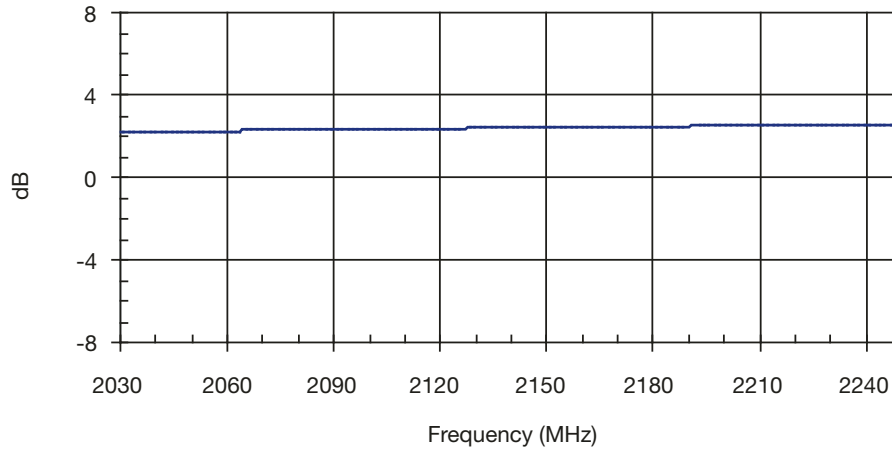
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

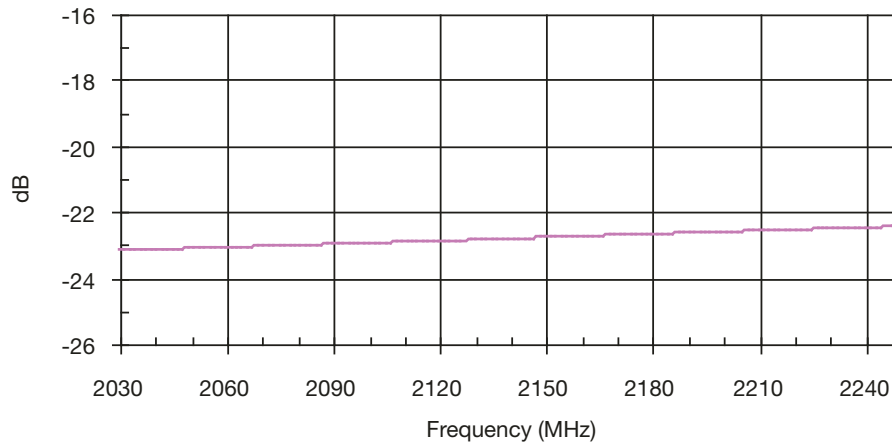


2040MHz to 2240MHz DB0603N2140ANTR

Phase Balance



Isolation



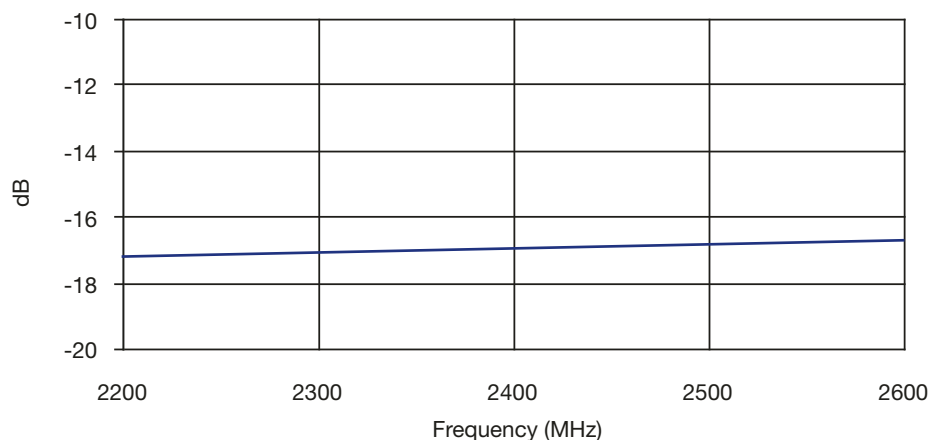
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

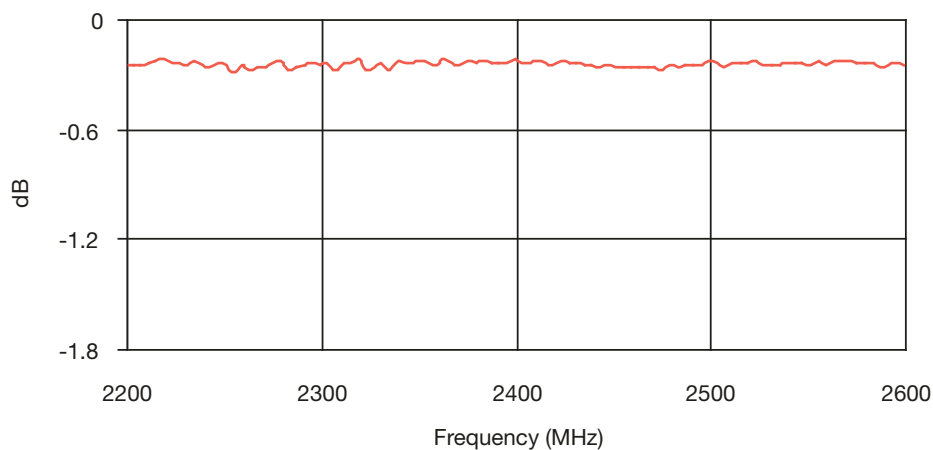


2200MHz to 2600MHz DB0603N2400ANTR

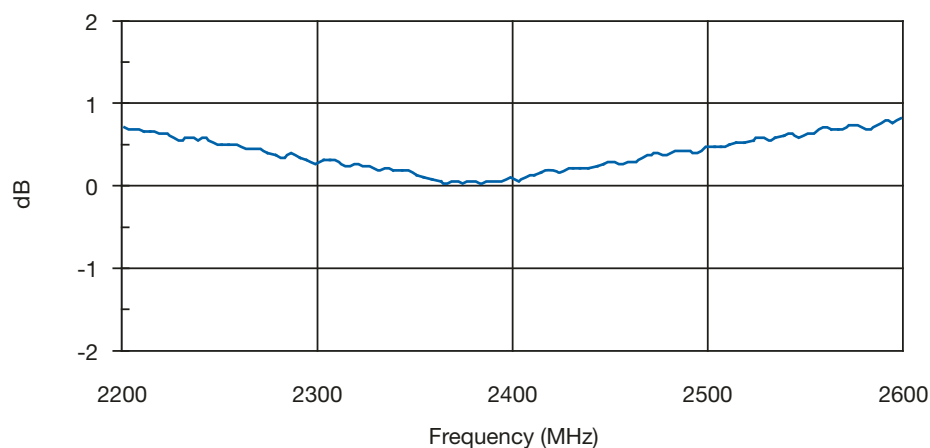
Return Loss - Input



Insertion Loss



Amplitude Balance



3

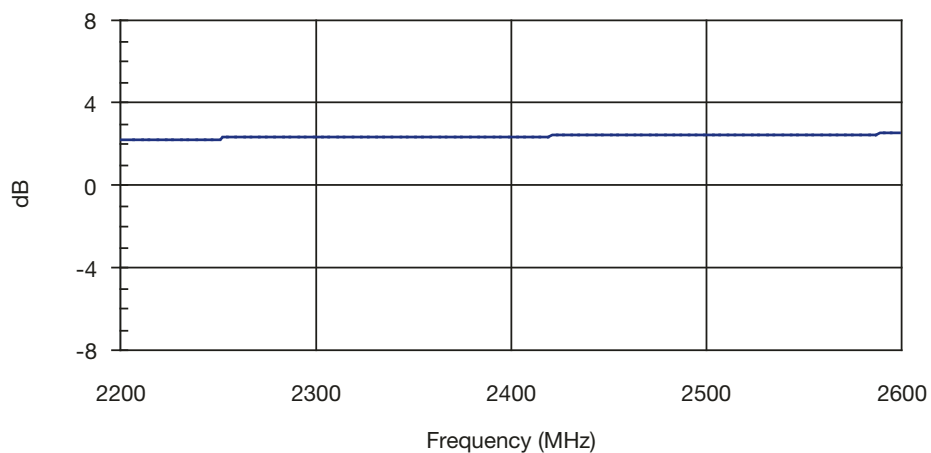
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

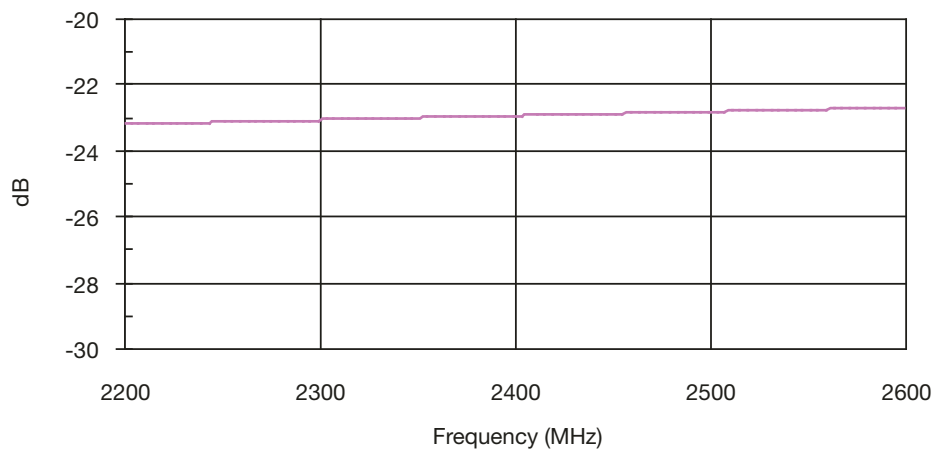


2200MHz to 2600MHz DB0603N2400ANTR

Phase Balance



Isolation

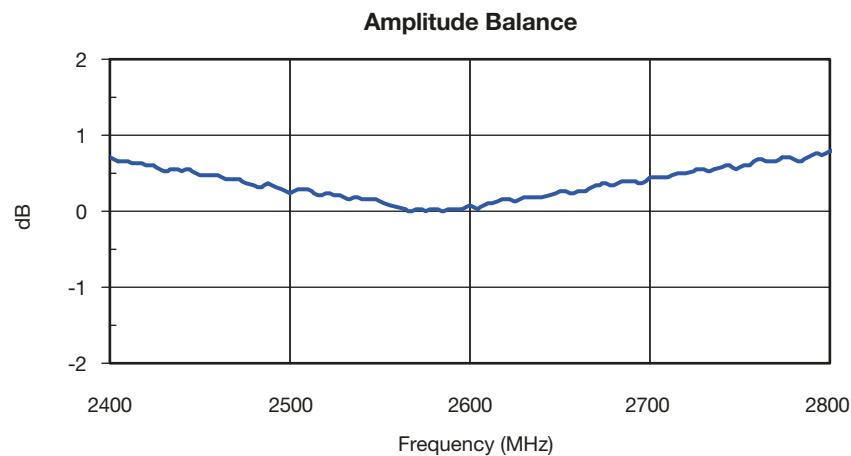
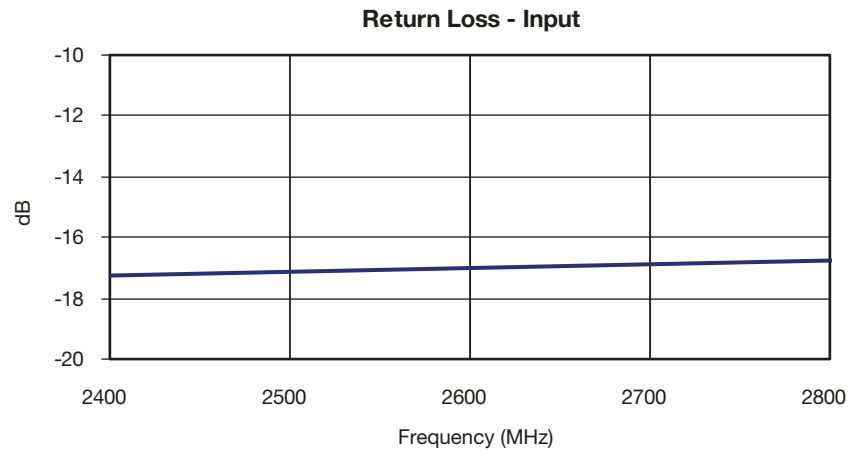


Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers



2400MHz TO 2800MHz DB0603N2600ANTR



3

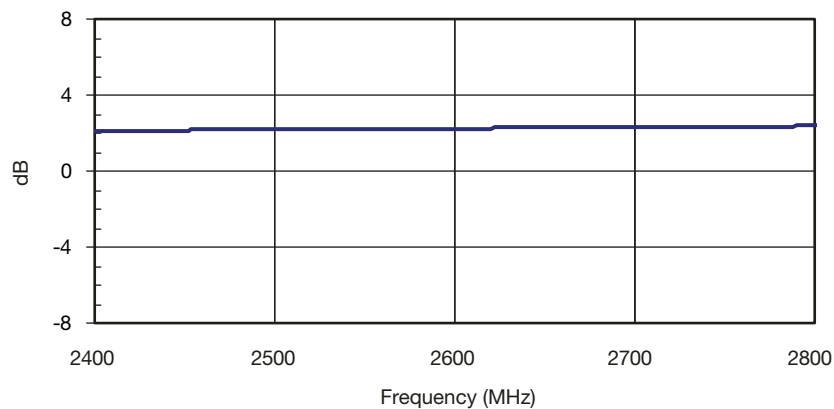
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

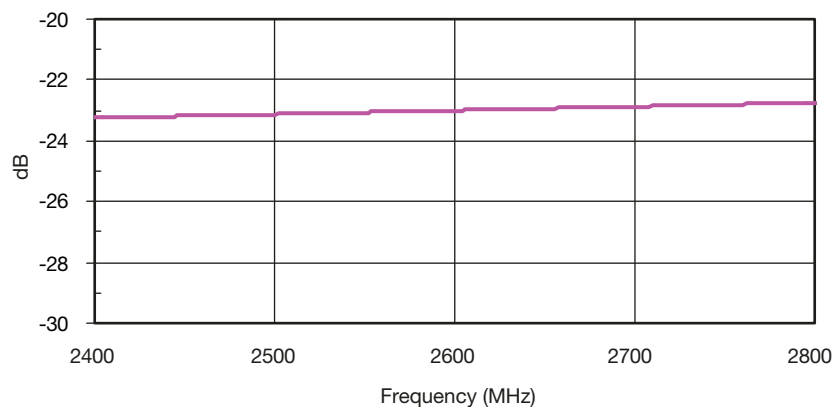


2400MHz TO 2800MHz DB0603N2600ANTR

Phase Balance



Isolation



3

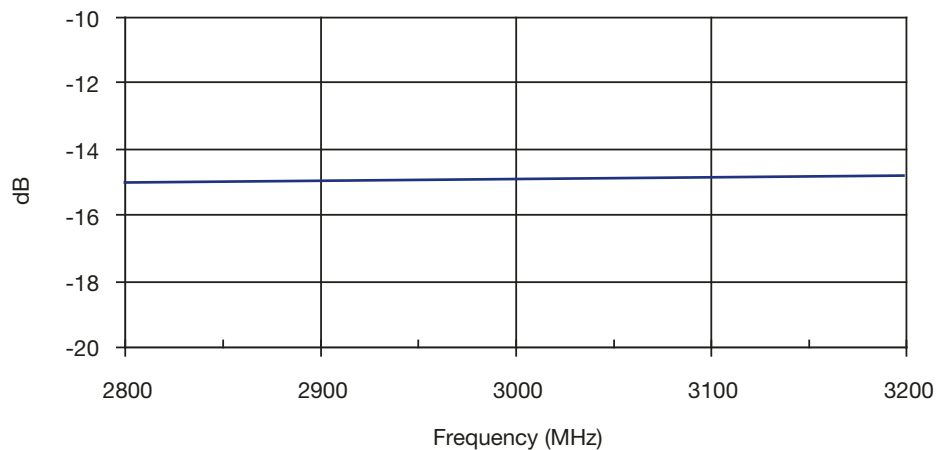
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

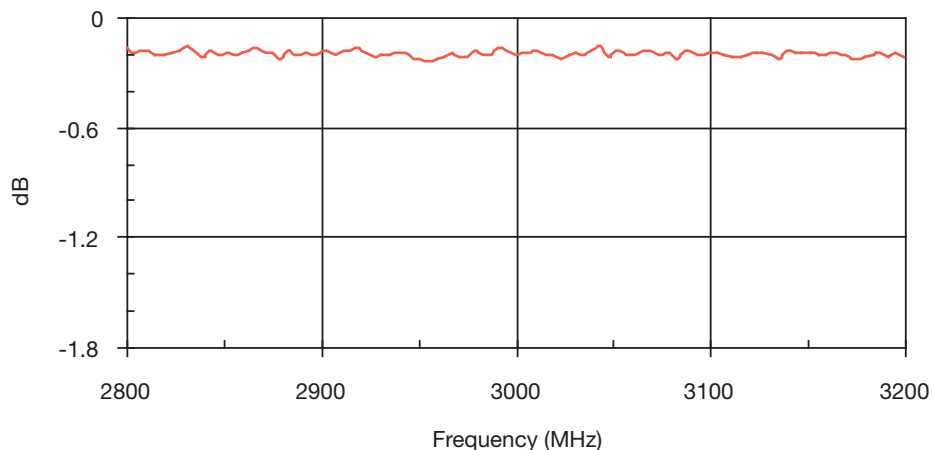


2850MHz to 3150MHz DB0603N3000ANTR

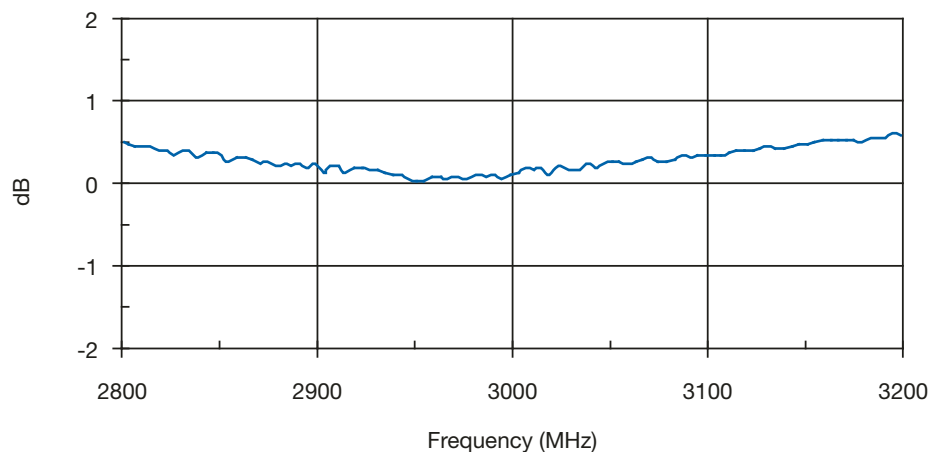
Return Loss - Input



Insertion Loss



Amplitude Balance



3

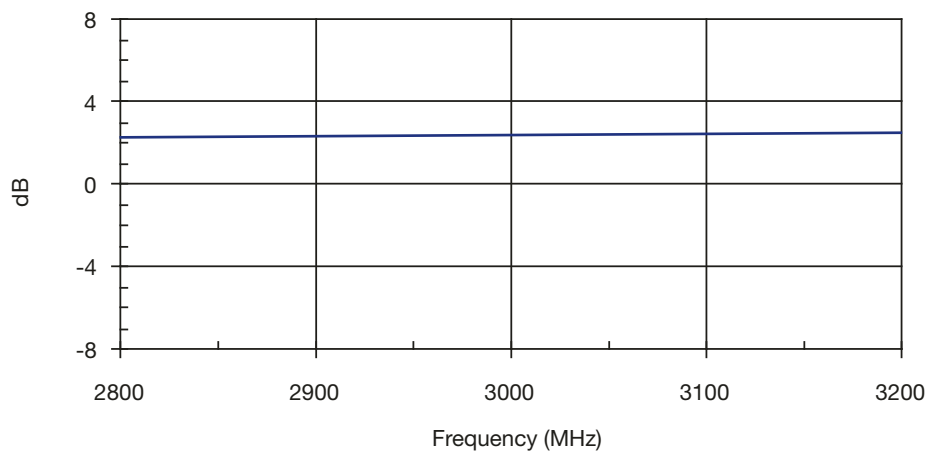
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

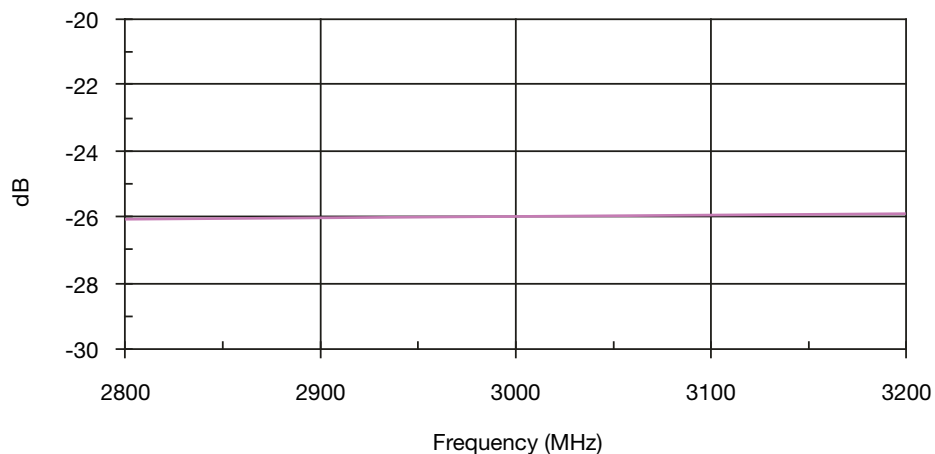


2850MHz to 3150MHz DB0603N3000ANTR

Phase Balance



Isolation



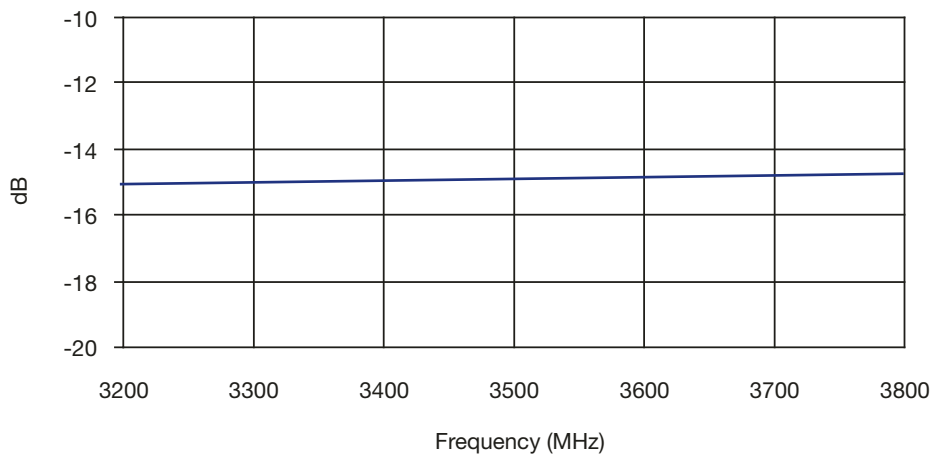
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

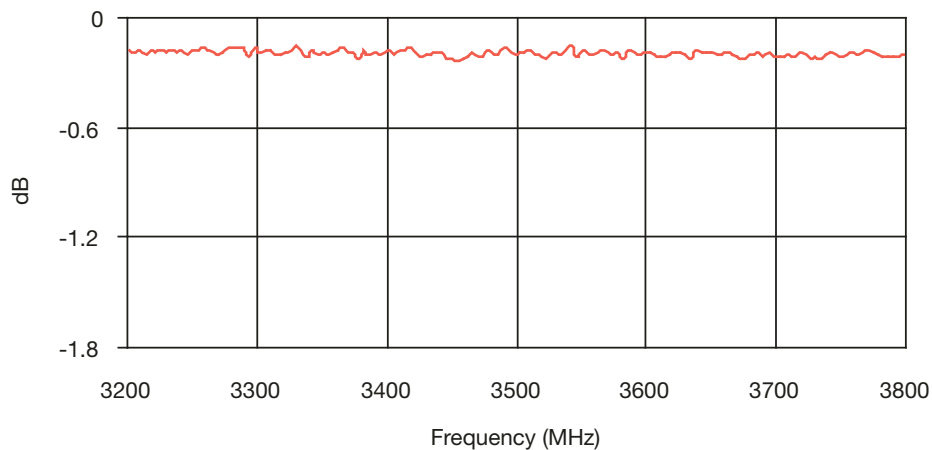


3200MHz to 3800MHz DB0603N3500ANTR

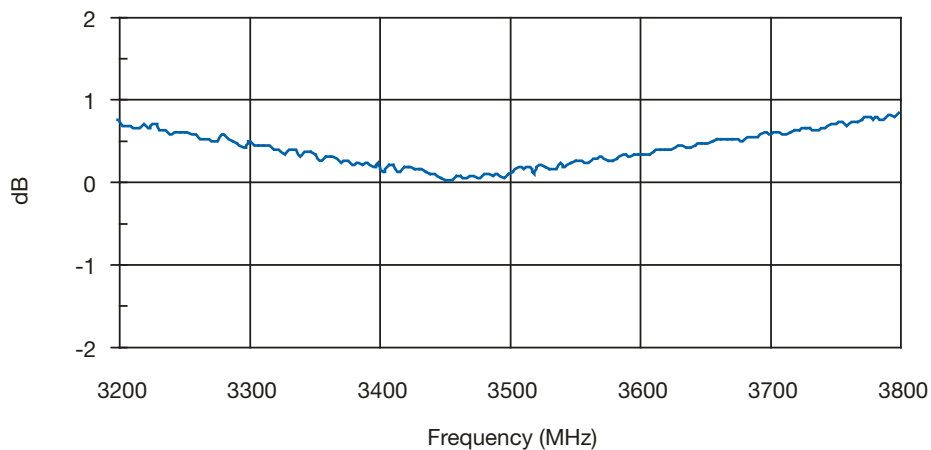
Return Loss - Input



Insertion Loss



Amplitude Balance



3

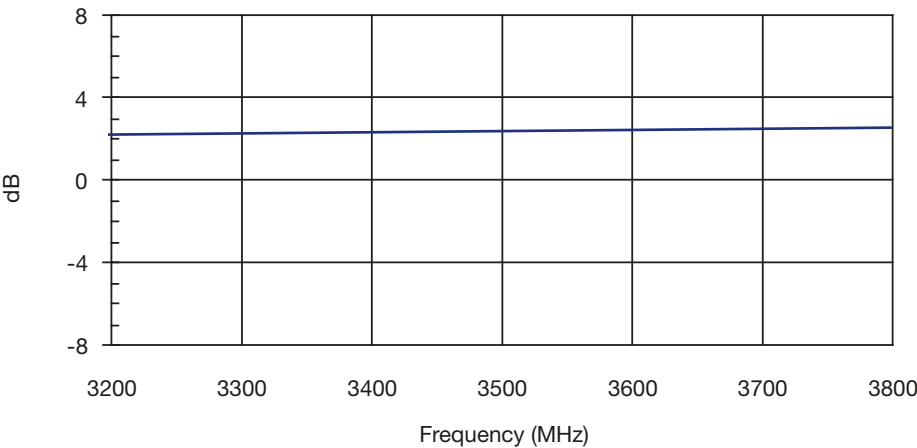
Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers

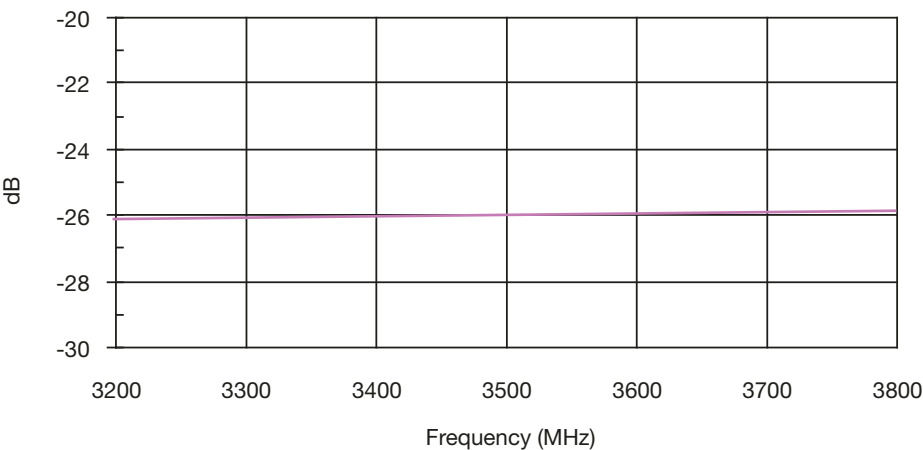


3200MHz to 3800MHz DB0603N3500ANTR

Phase Balance



Isolation



3

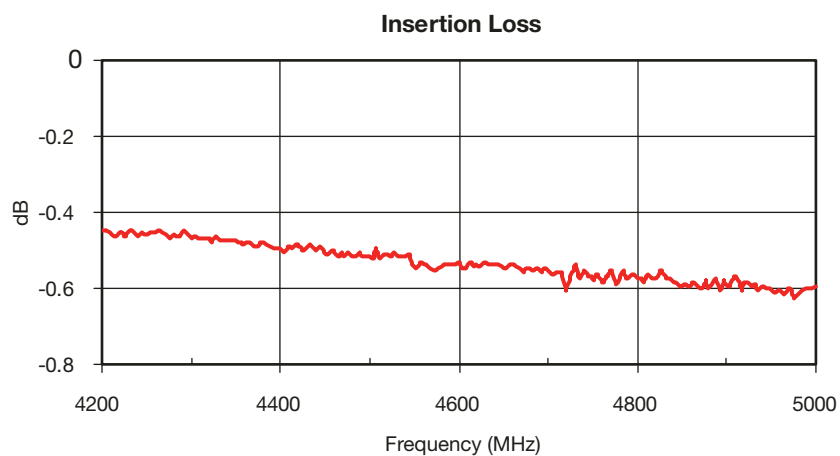
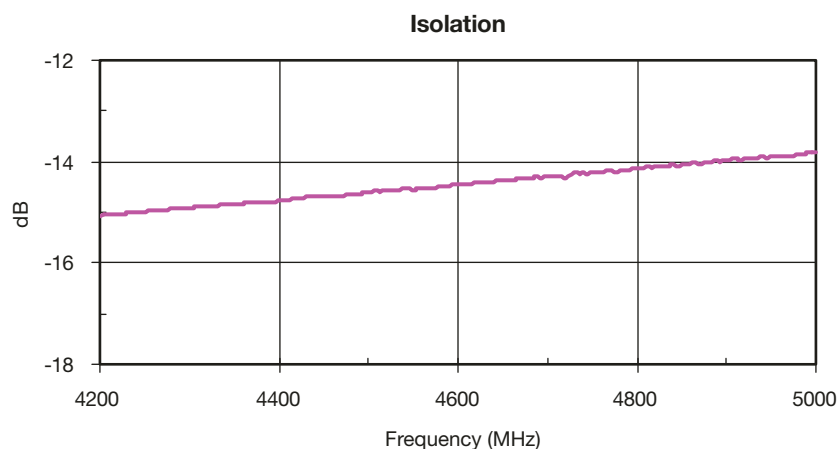
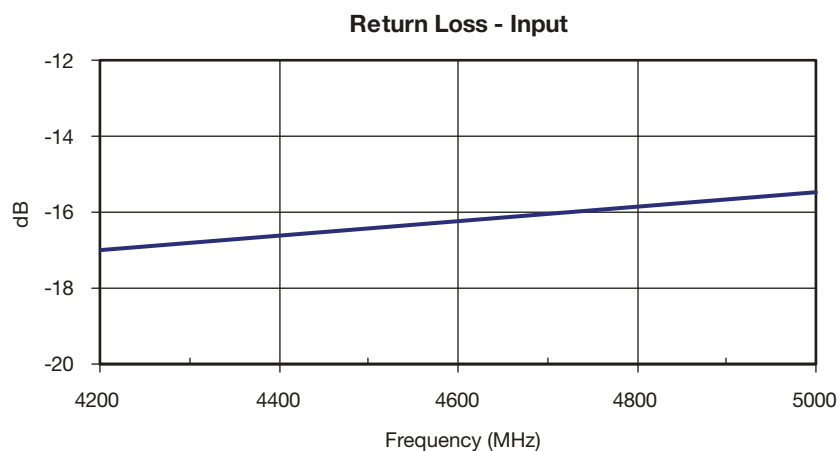


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4200MHz TO 5000MHz DB0603N4600ANTR



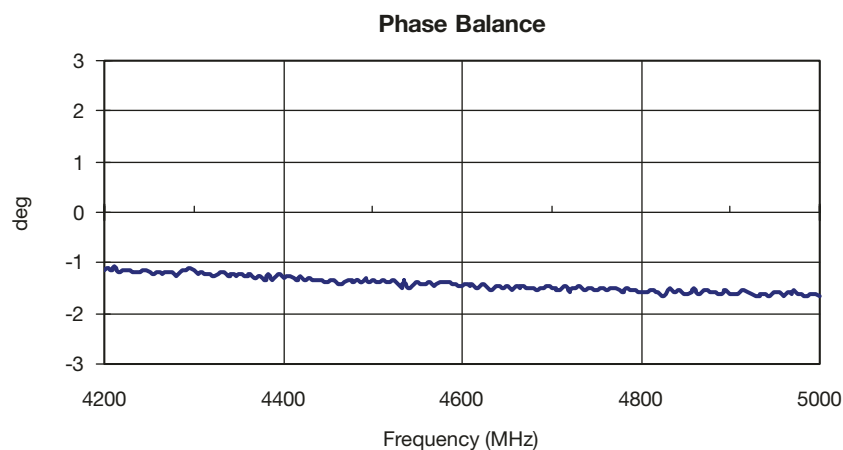
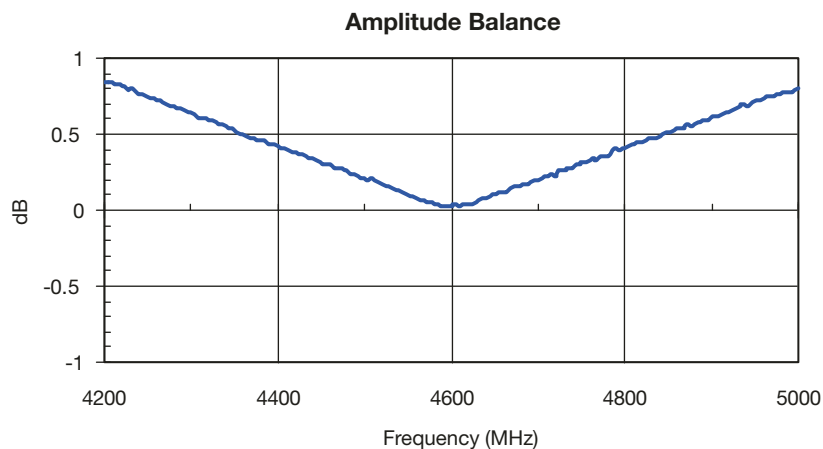
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Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers



4200MHz TO 5000MHz DB0603N4600ANTR

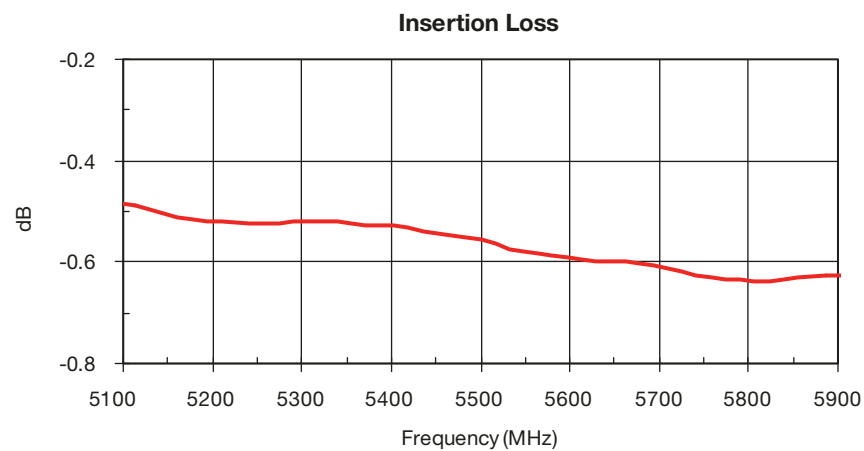
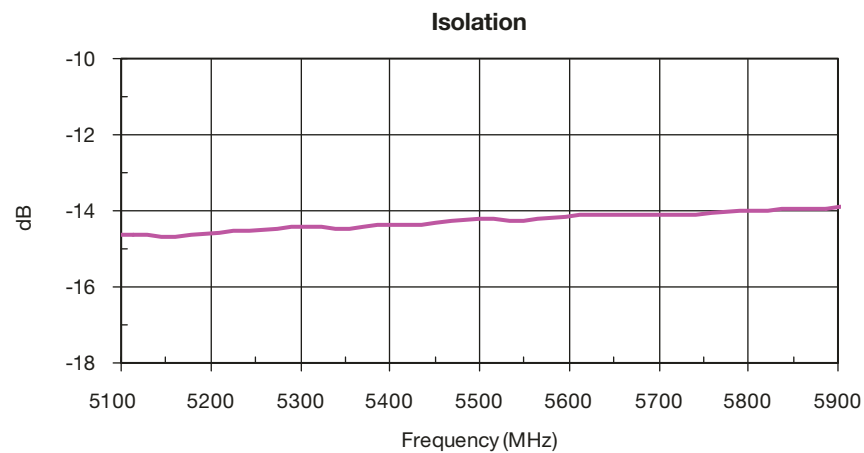
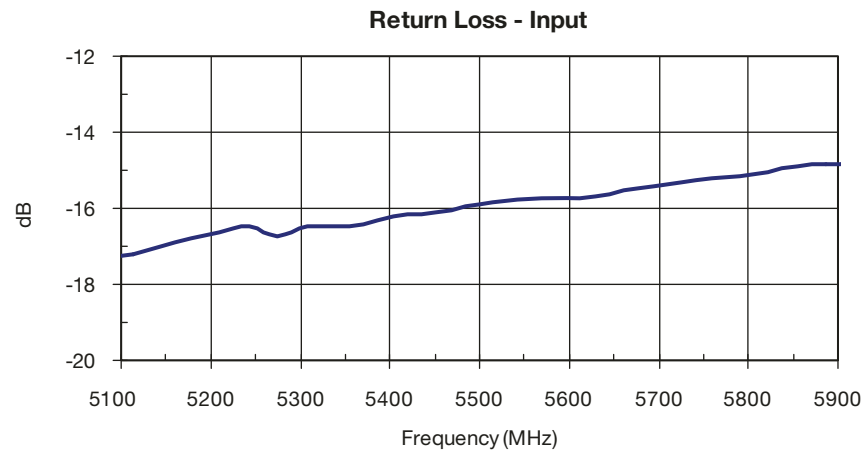


Thin-Film Directional Couplers

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5100MHz TO 5900MHz DB0603N5500ANTR



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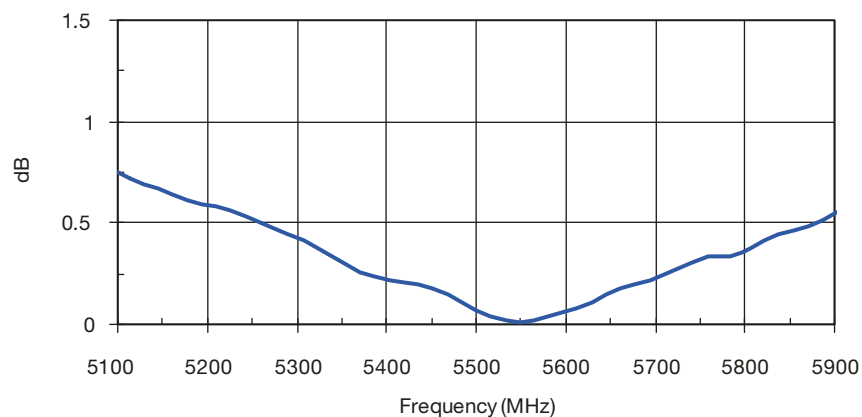
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DB0603N 3dB 90° Couplers

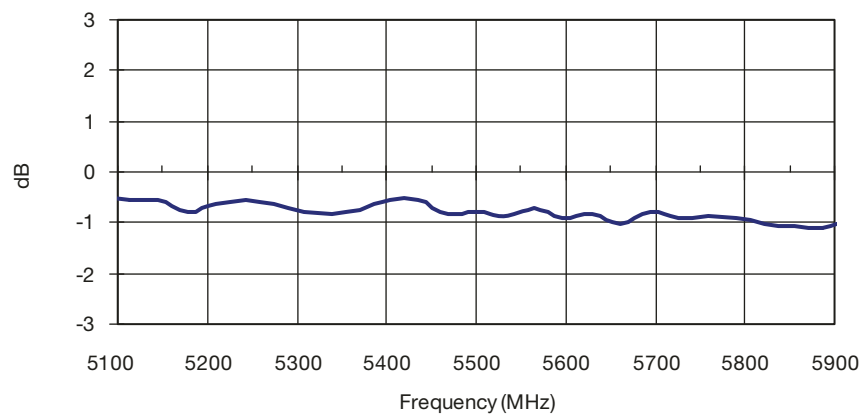


5100MHz TO 5900MHz DB0603N5500ANTR

Amplitude Balance



Phase Balance

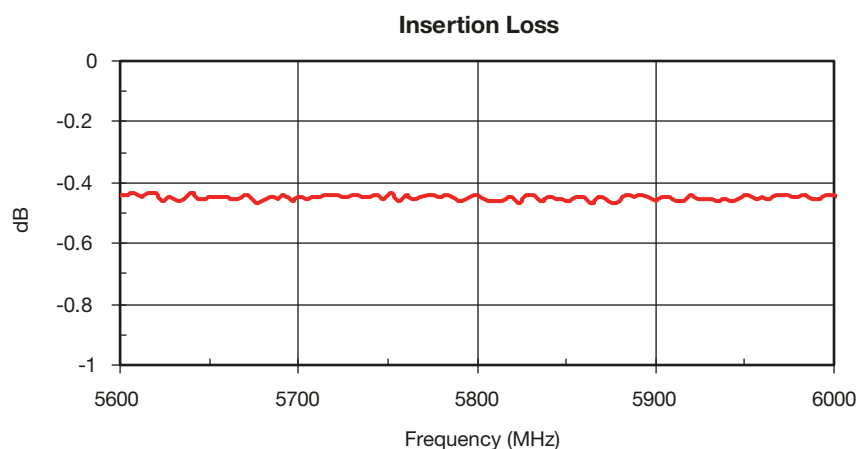
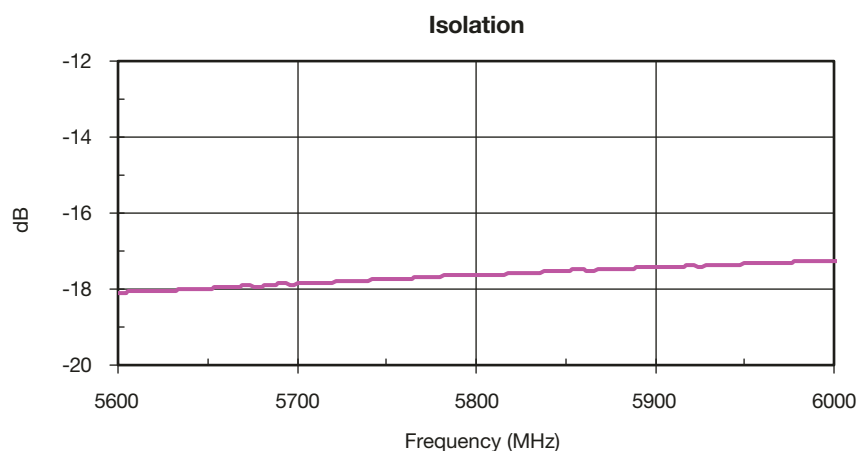
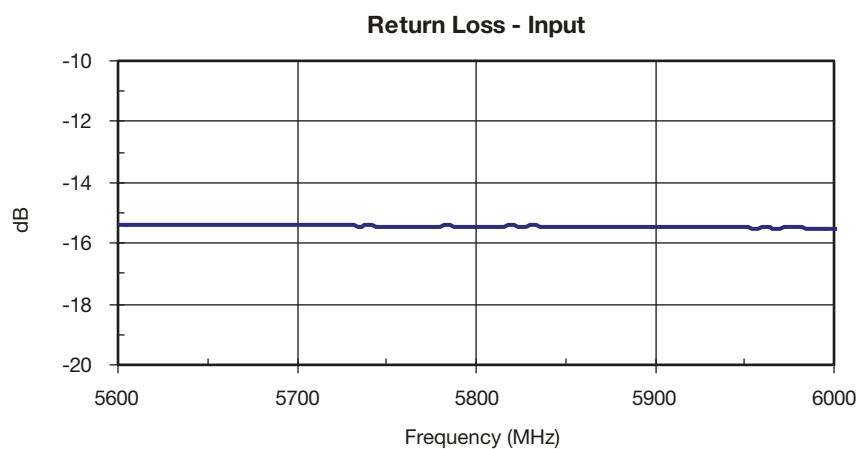


Thin-Film Directional Couplers

DB0603N 3dB 90° Couplers



5600MHz TO 6000MHz DB0603N5800ANTR



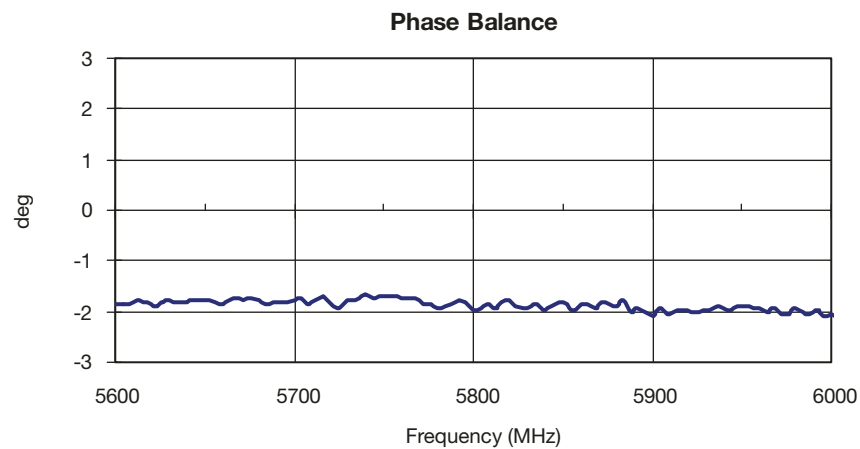
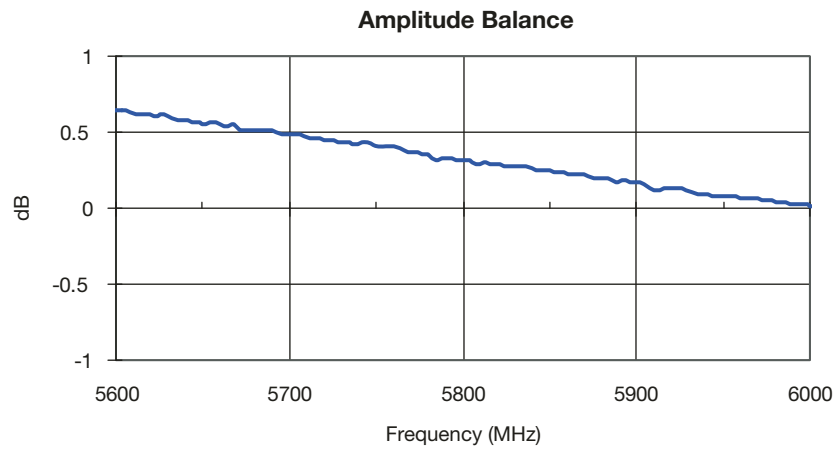
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5600MHz TO 6000MHz DB0603N5800ANTR



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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