Thin-Film Directional Couplers
DB0603N 3dB 90° Couplers

3

GENERAL DESCRIPTION RFAP TECHNOLOGY

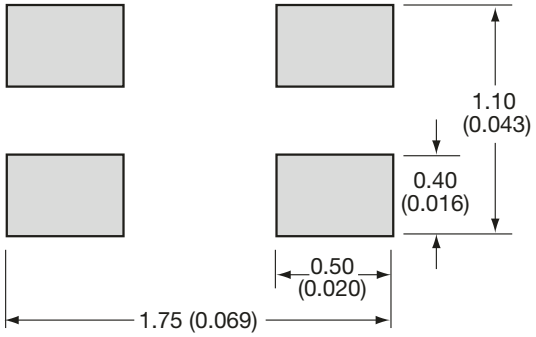
The DB0603N 3dB 90° Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

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

Recommended Pad Layout Dimensions mm (inches)



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:

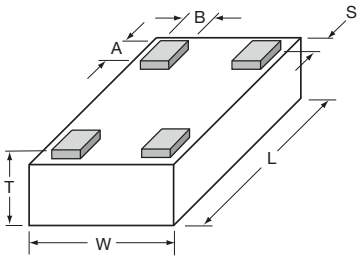
- Inherent Low Profile
- Self Alignment during Reflow
- Excellent Solderability
- Low Parasitics
- Better Heat Dissipation

DIMENSIONS:

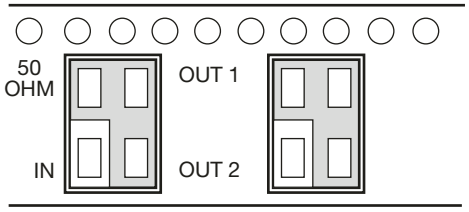
millimeters (inches)

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



ORIENTATION IN TAPE



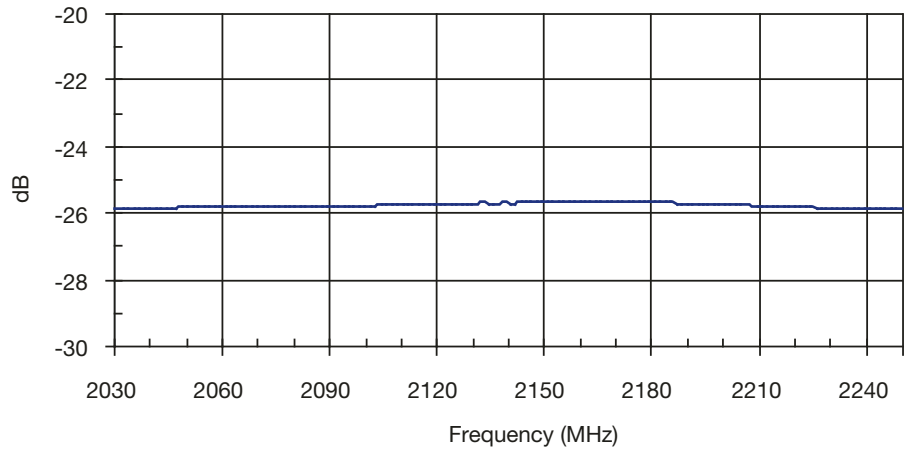
ELECTRICAL PARAMETERS

Part Number	Frequency MHz		Port Impedance Ω	Return Loss [dB]		Isolation [dB]		Insertion Loss [dB]		Ampltidue Balance [dB]		Phase Balance (Relative to 90°) Deg		Power Handing Watts
	Min.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Typ.	Max.	Typ.	Max.	Typ.	Max	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

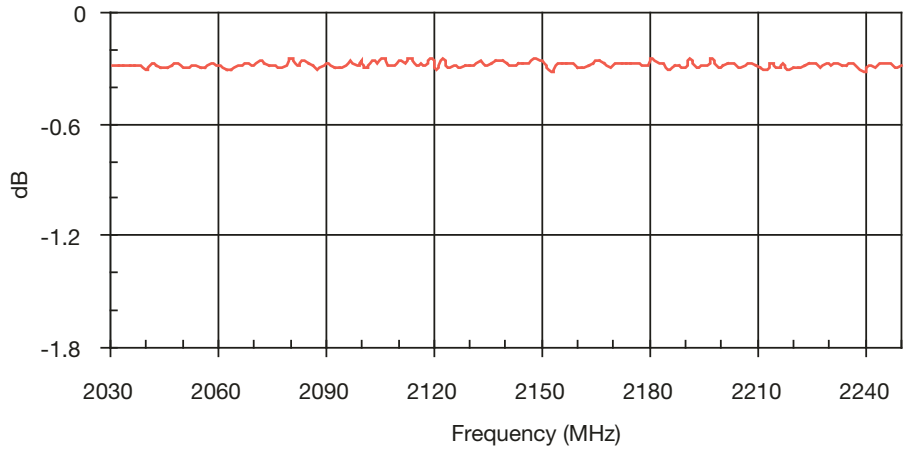
NOTE: Additional Frequencies Available Upon Request

2040MHz to 2240MHz DB0603N2140ANTR

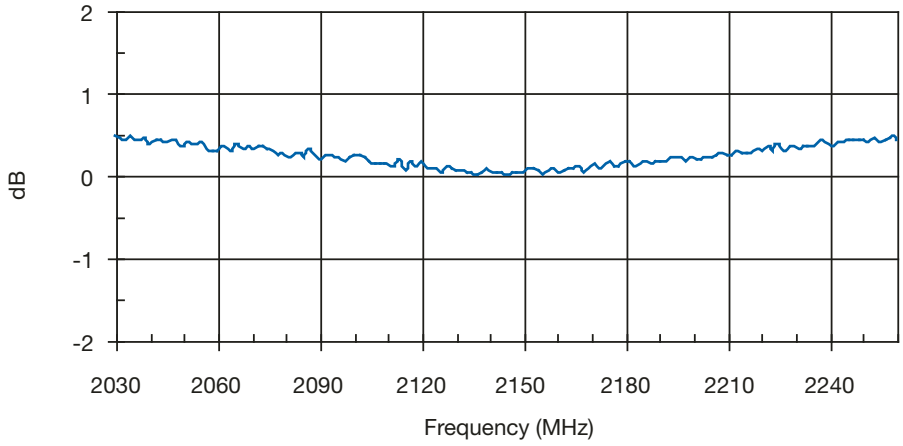
Return Loss - Input



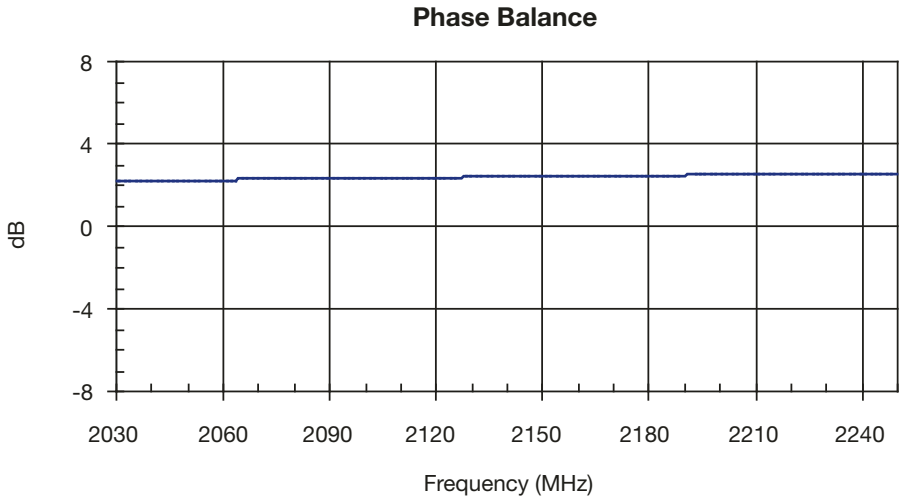
Insertion Loss

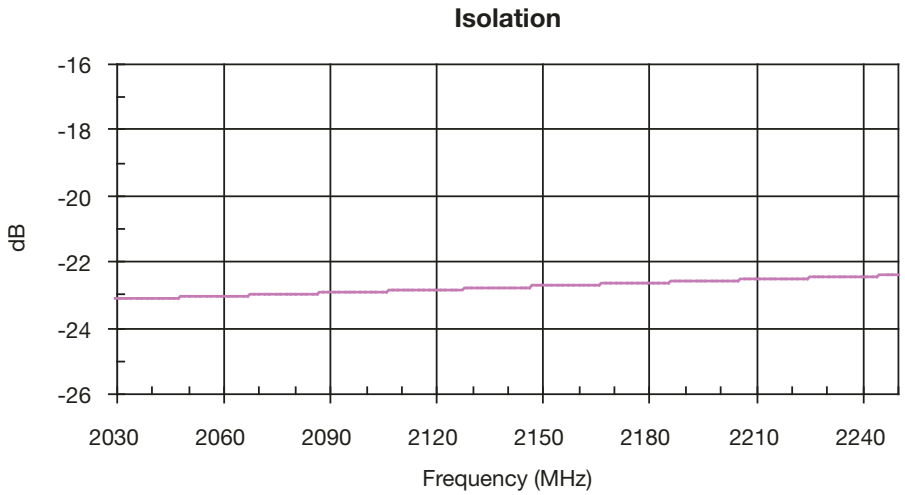


Amplitude Balance



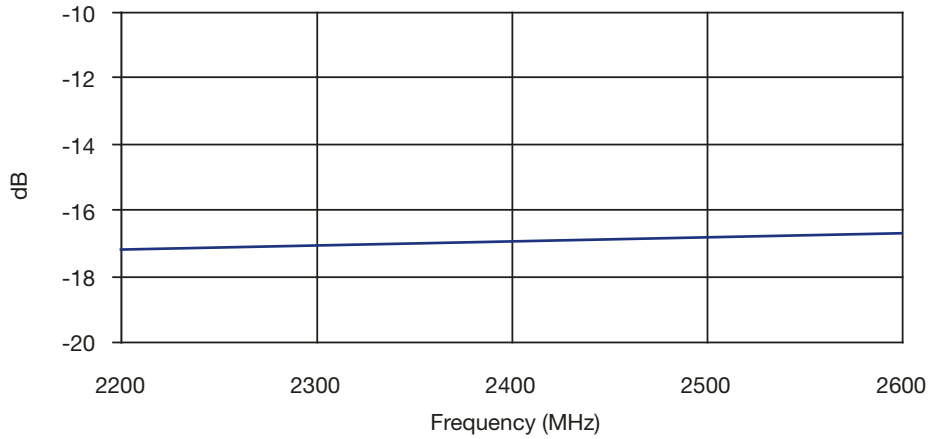
2040MHz to 2240MHz DB0603N2140ANTR



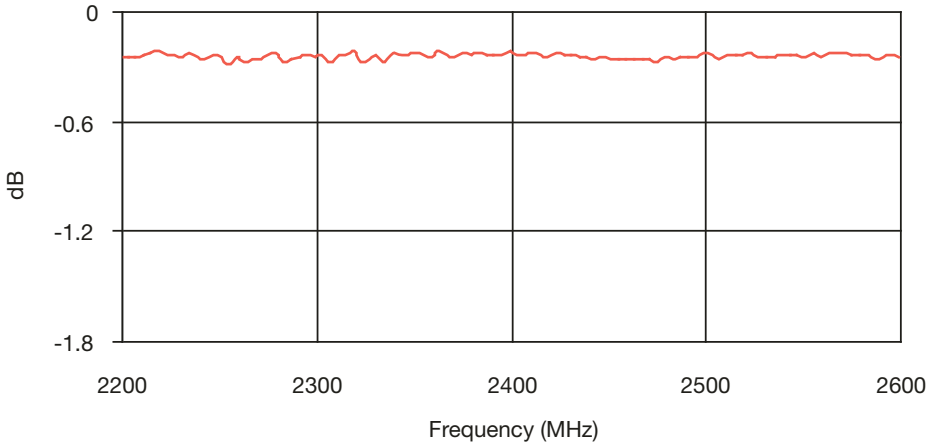


2200MHz to 2600MHz DB0603N2400ANTR

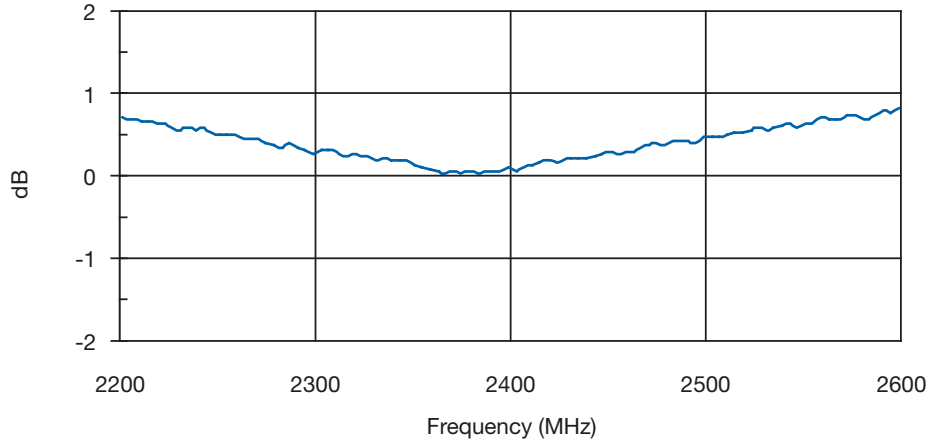
Return Loss - Input



Insertion Loss

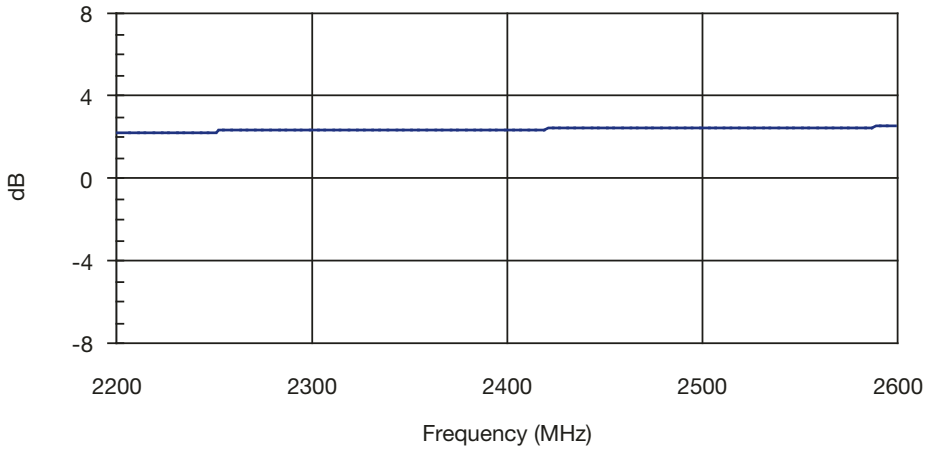


Amplitude Balance

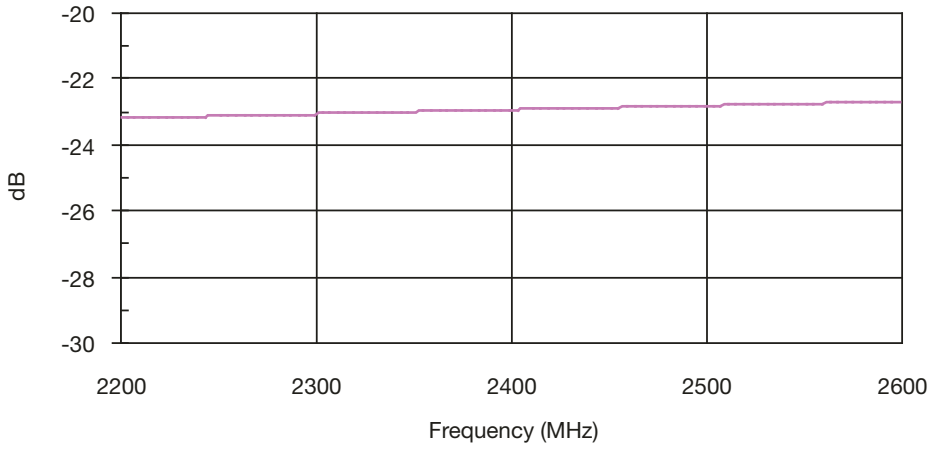


2200MHz to 2600MHz DB0603N2400ANTR

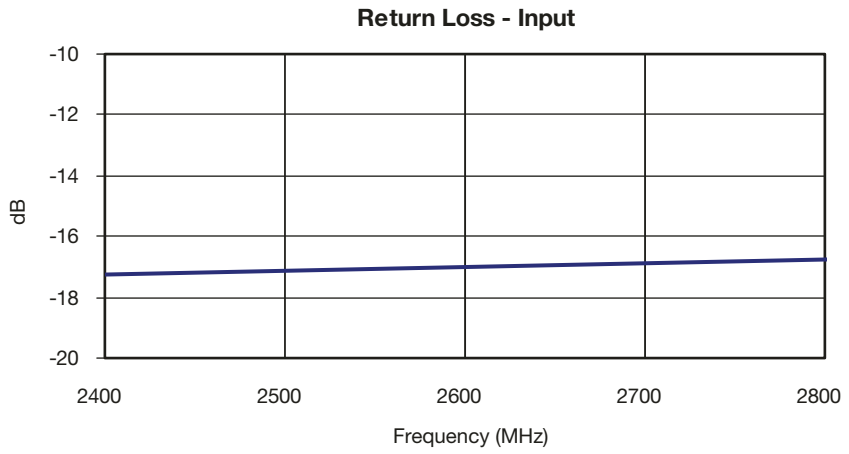
Phase Balance

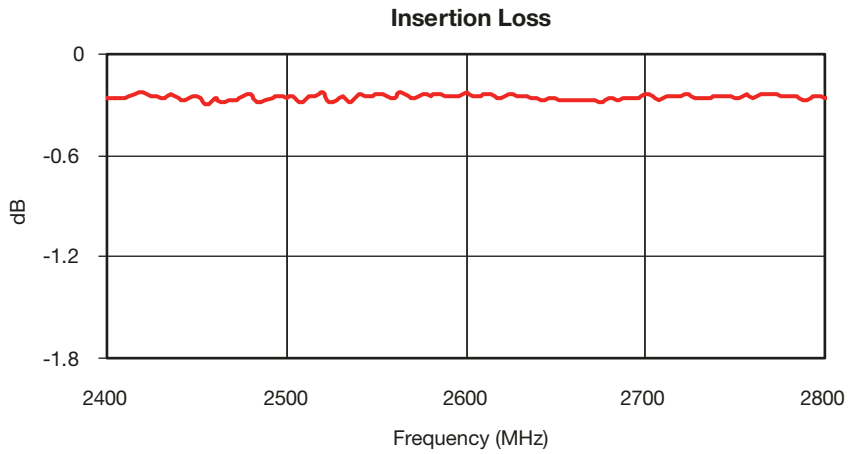


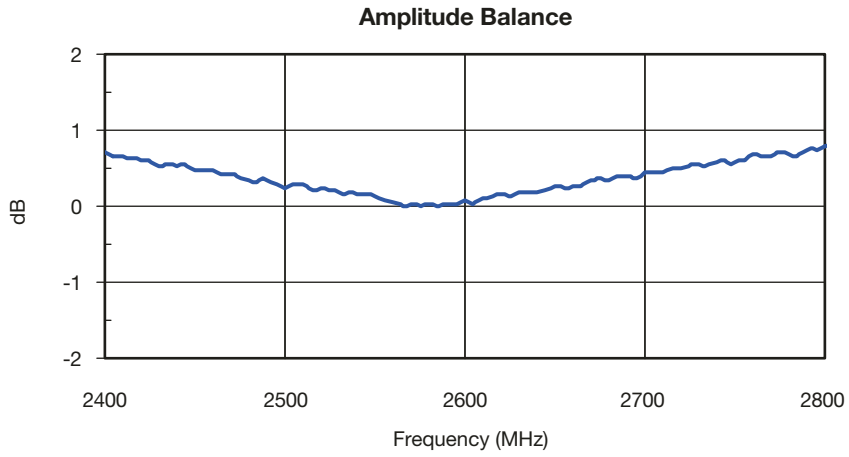
Isolation



2400MHz TO 2800MHz DB0603N2600ANTR

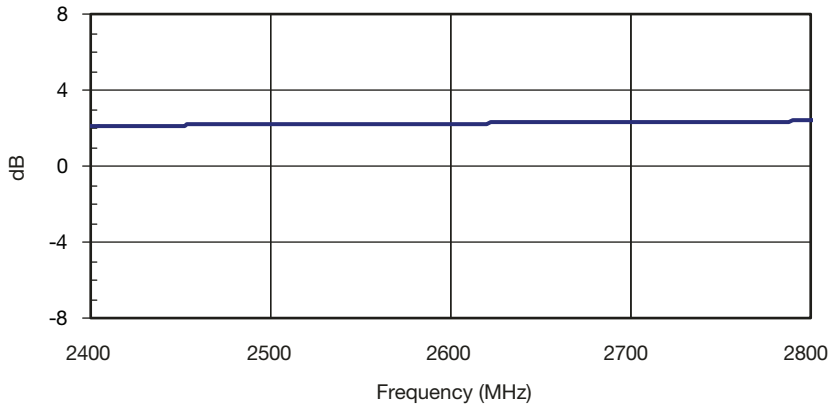




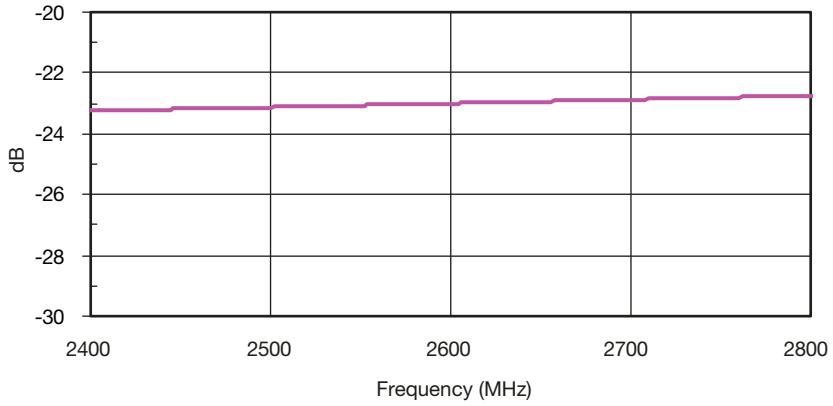


2400MHz TO 2800MHz DB0603N2600ANTR

Phase Balance

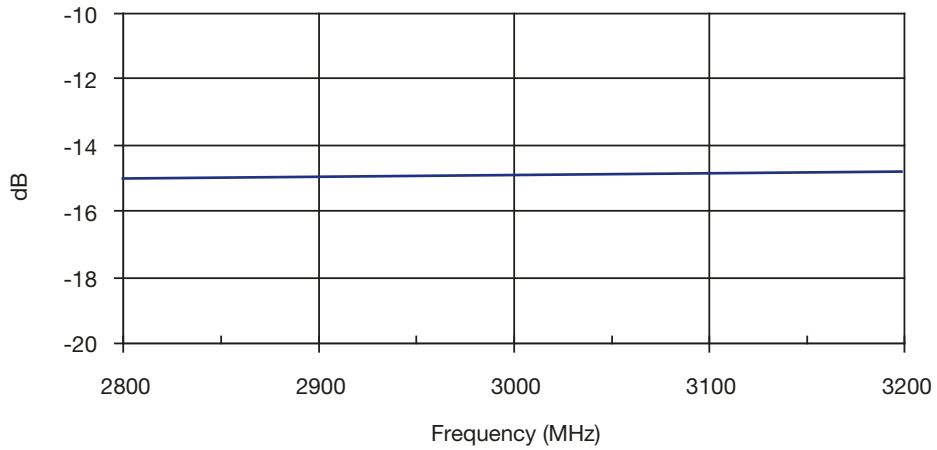


Isolation

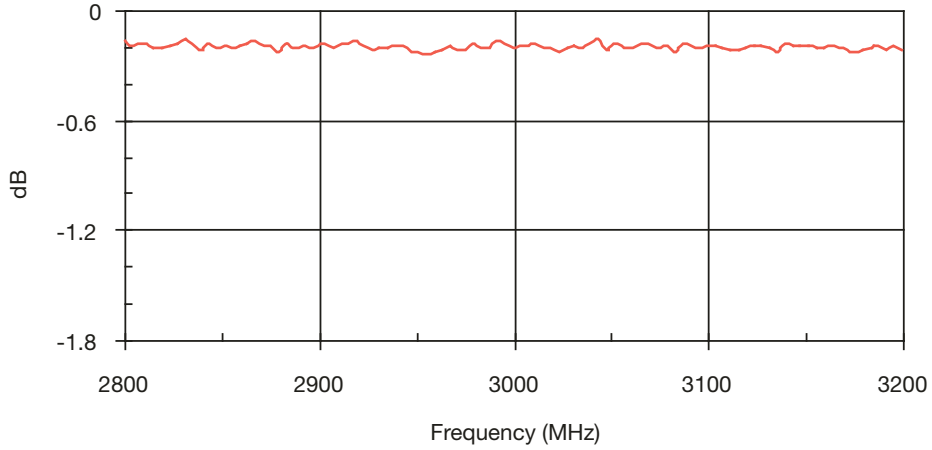


2850MHz to 3150MHz DB0603N3000ANTR

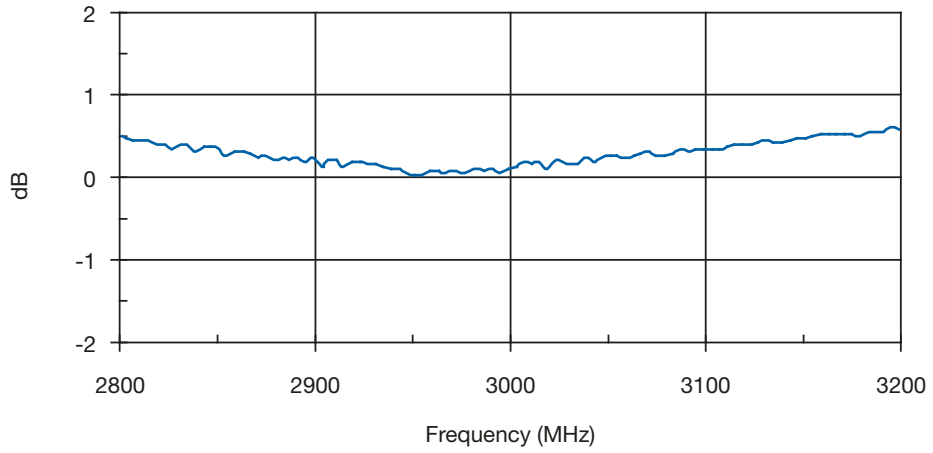
Return Loss - Input



Insertion Loss

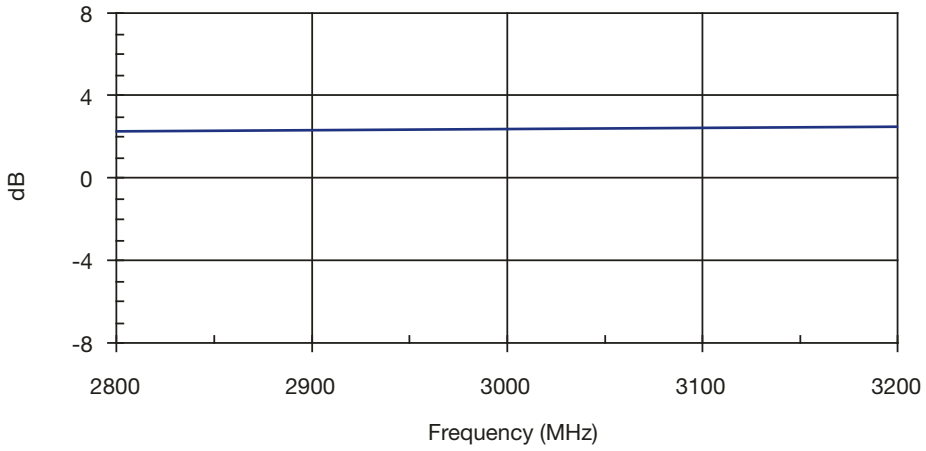


Amplitude Balance

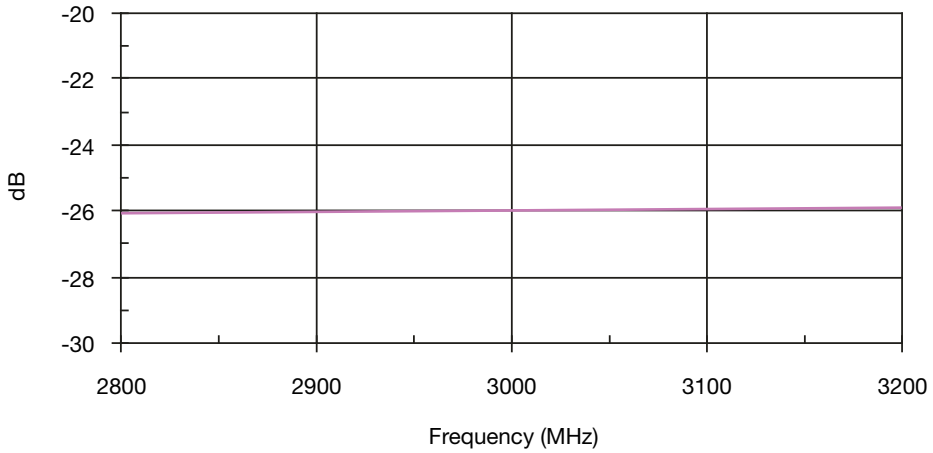


2850MHz to 3150MHz DB0603N3000ANTR

Phase Balance

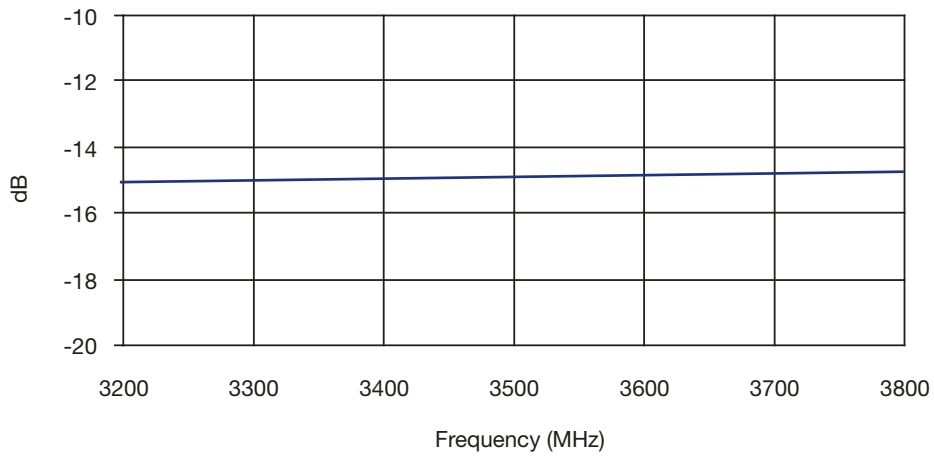


Isolation

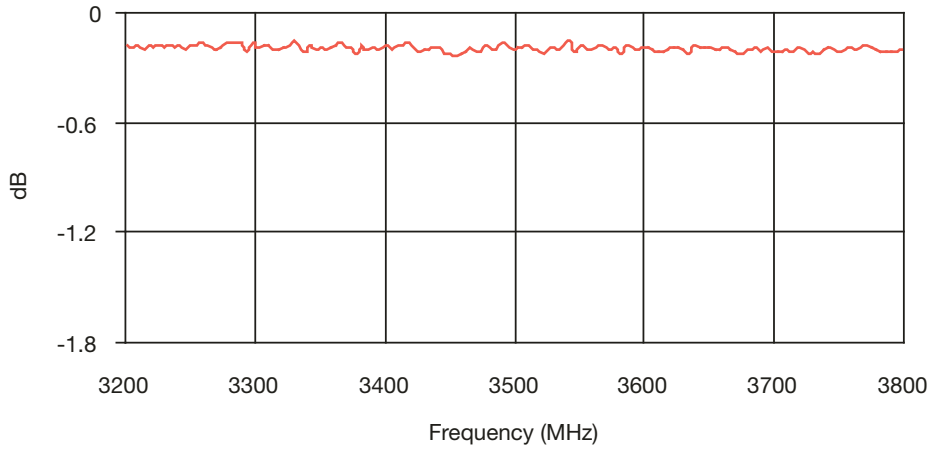


3200MHz to 3800MHz DB0603N3500ANTR

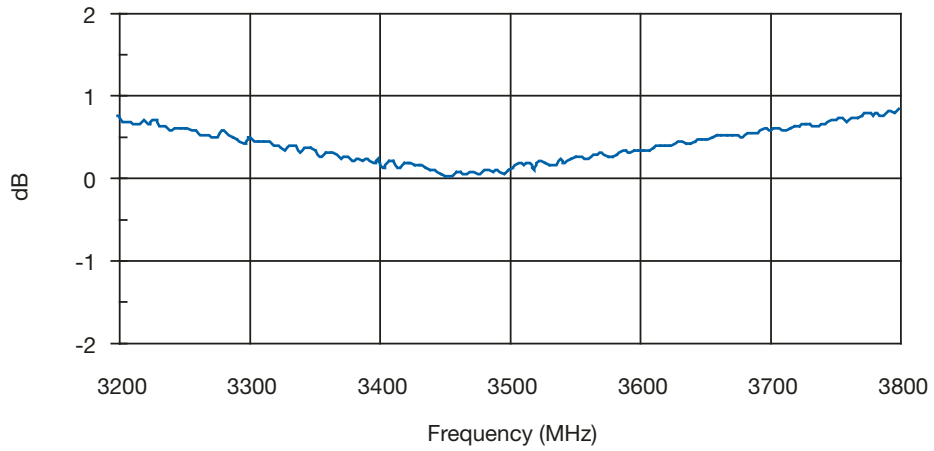
Return Loss - Input



Insertion Loss

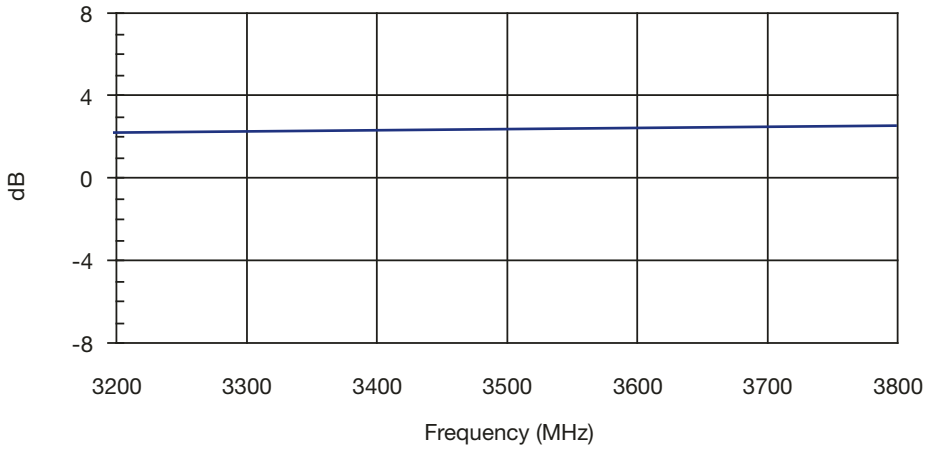


Amplitude Balance

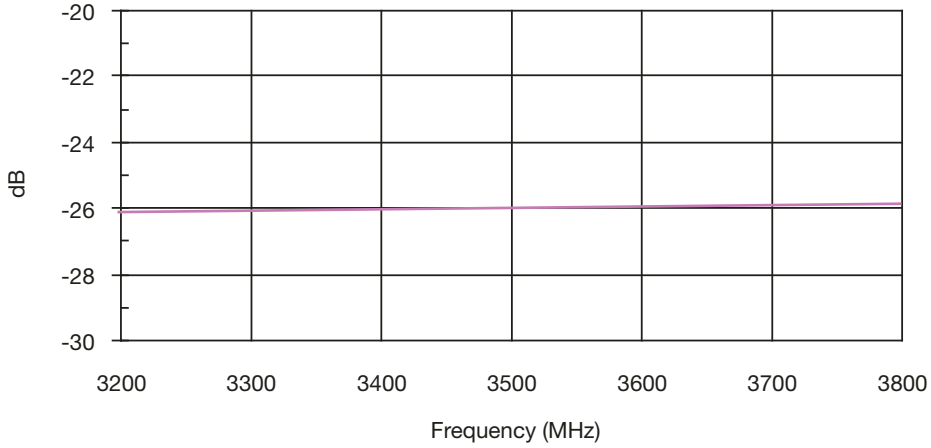


3200MHz to 3800MHz DB0603N3500ANTR

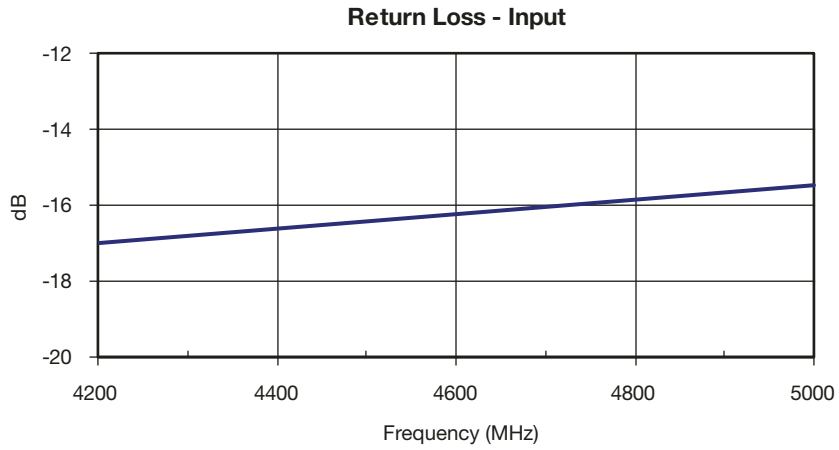
Phase Balance

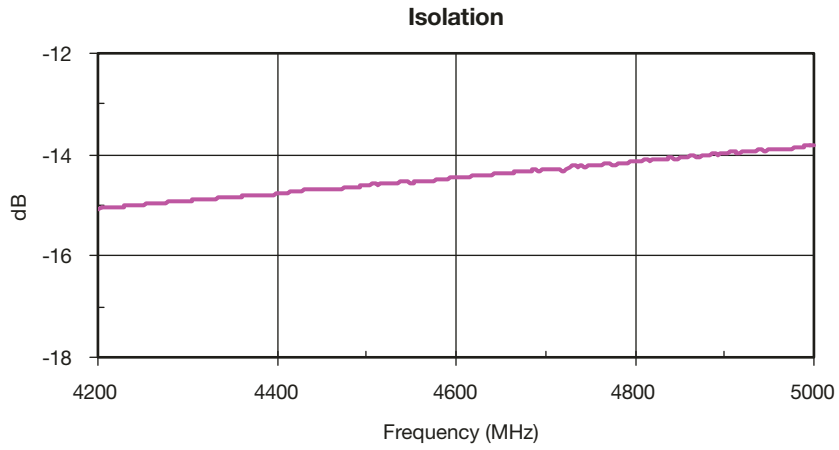


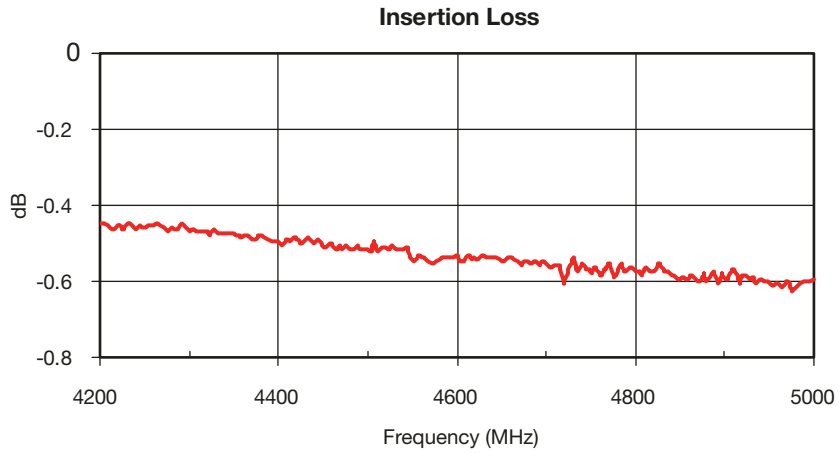
Isolation



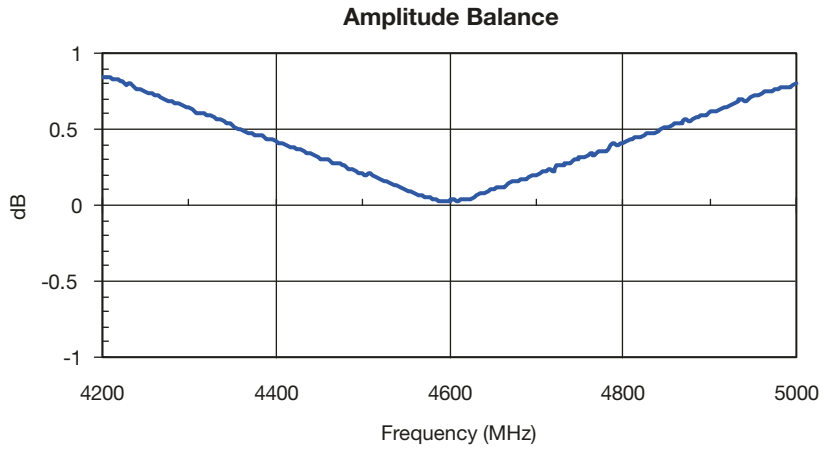
4200MHz TO 5000MHz DB0603N4600ANTR

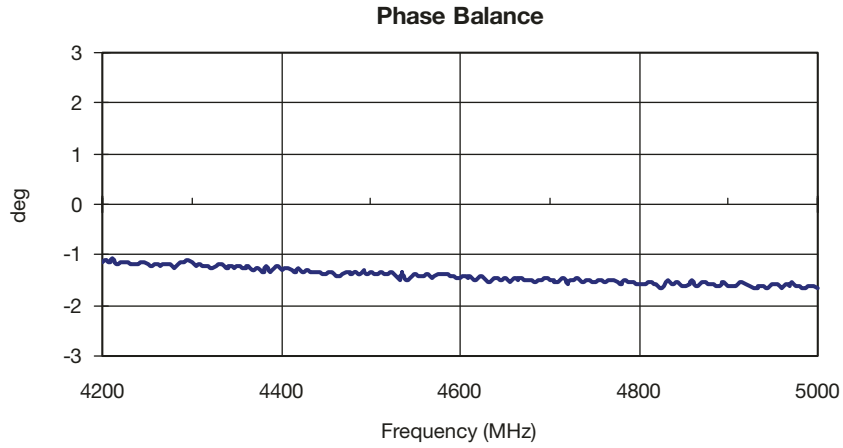




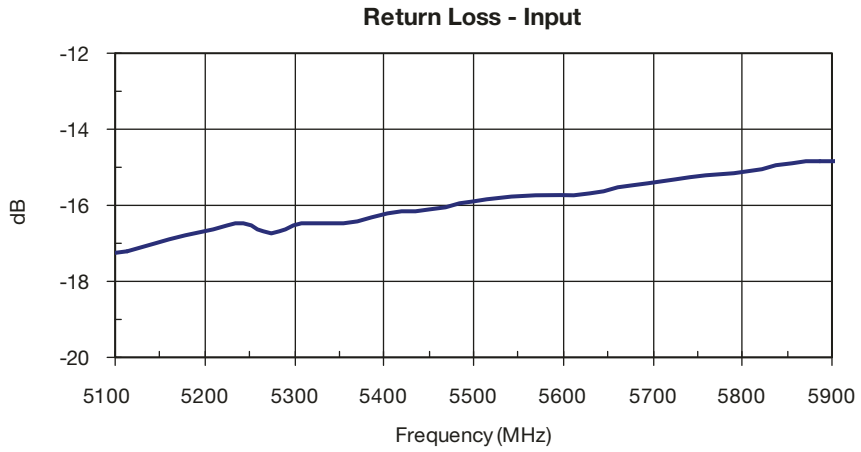


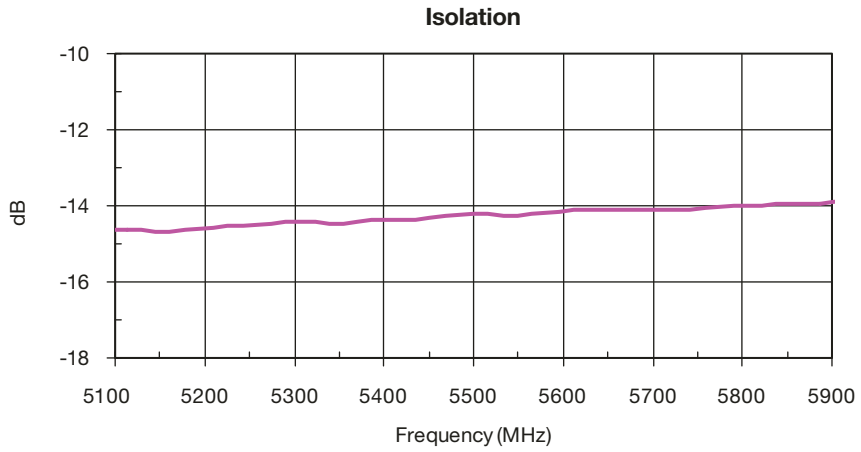
4200MHz TO 5000MHz DB0603N4600ANTR

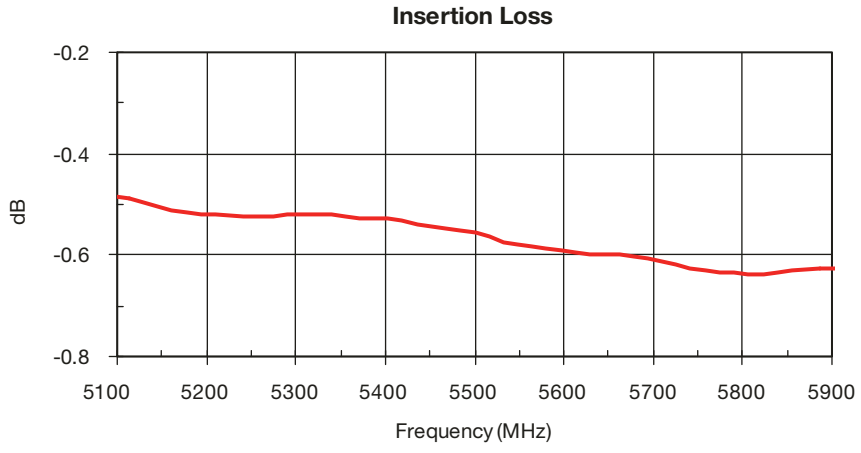




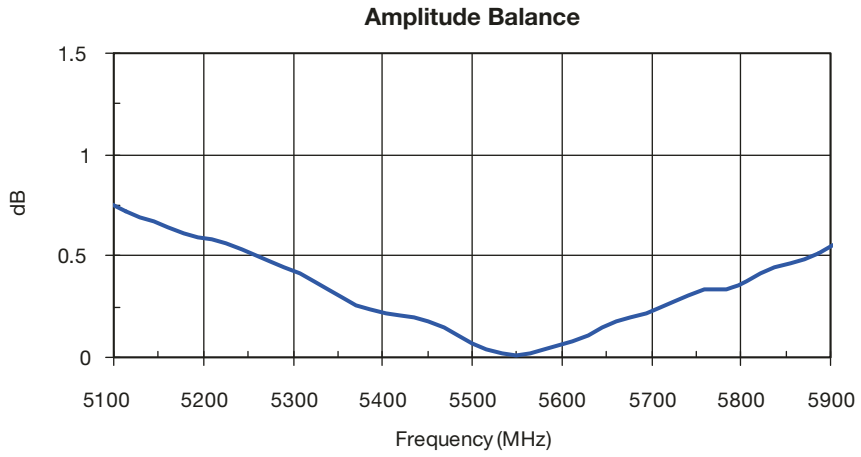
5100MHz TO 5900MHz DB0603N5500ANTR

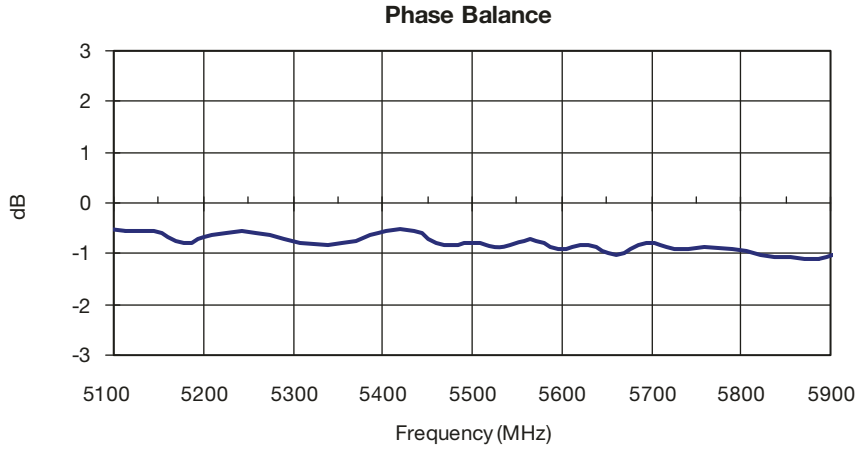




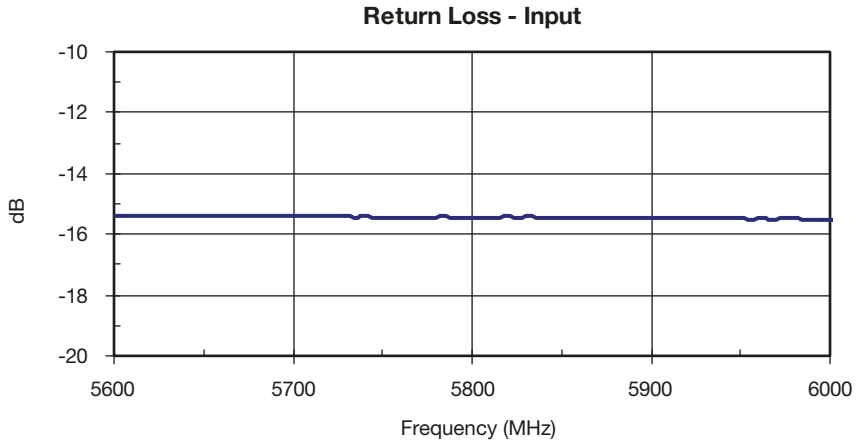


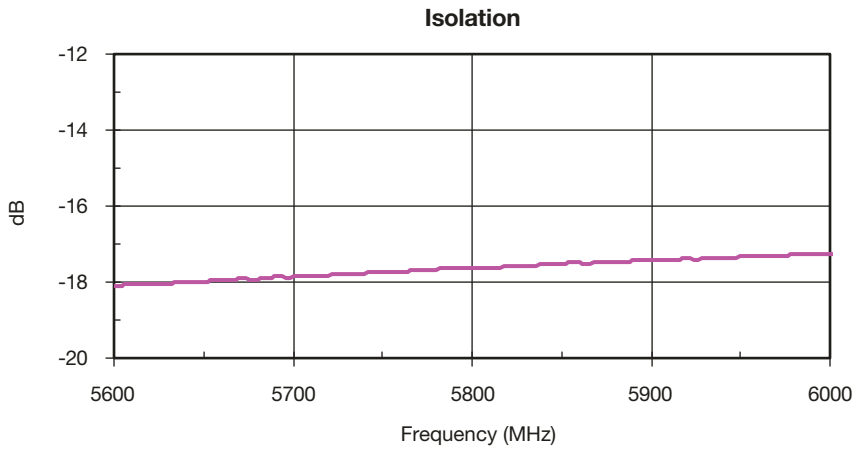
5100MHz TO 5900MHz DB0603N5500ANTR

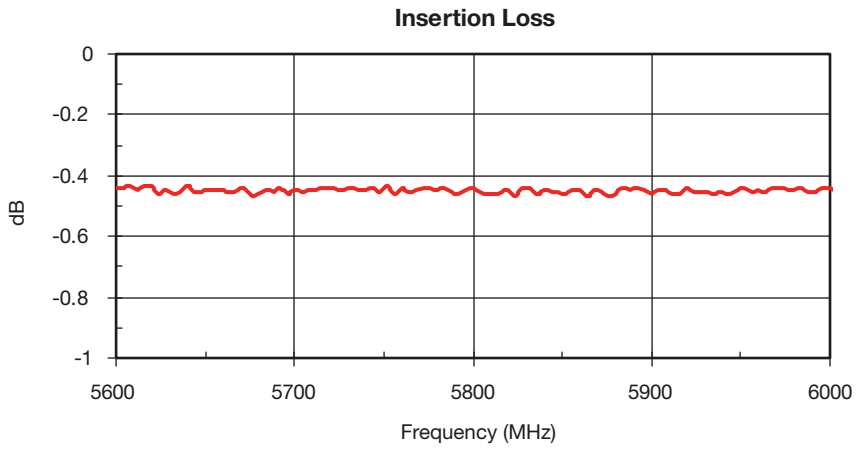




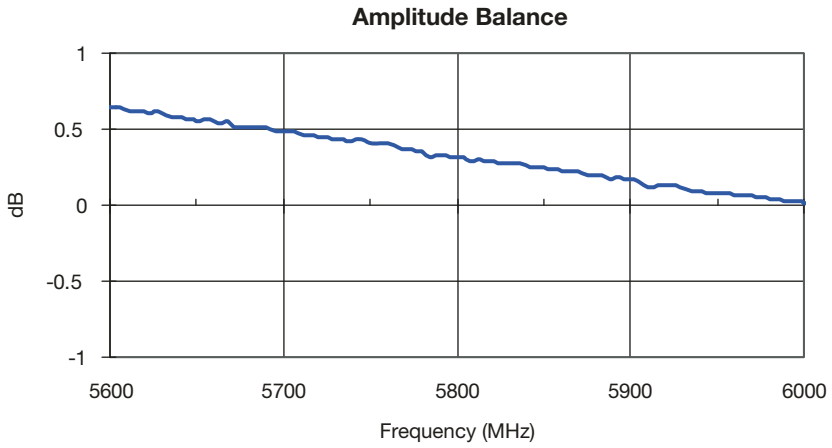
5600MHz TO 6000MHz DB0603N5800ANTR

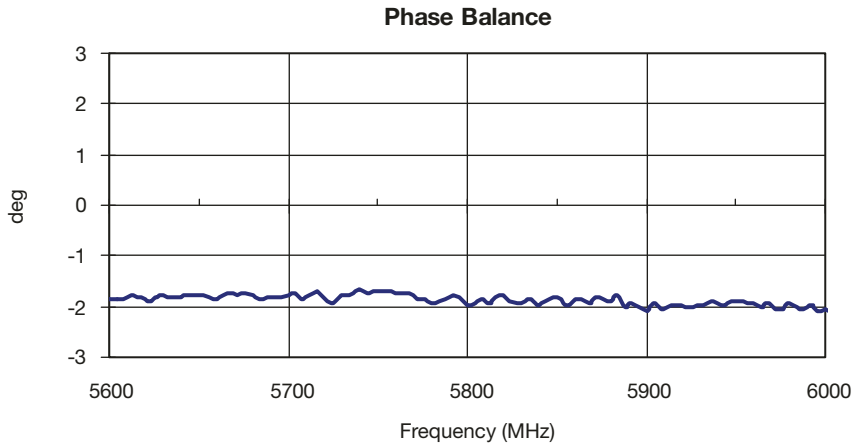






5600MHz TO 6000MHz DB0603N5800ANTR





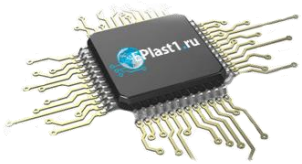
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.