

GENERAL DESCRIPTION RFAP TECHNOLOGY

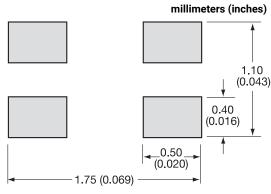
The DB0603N 3dB 90° Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

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

- 4G LTE
- 5G LTE
- · Base Stations.
- Automotive
- Industrial
- · Balanced Amplifiers and Signal Distribution in Wireless Communications

RECOMMENDED PAD LAYOUT DIMENSIONS:



FEATURES

- Miniature 0603 size
- · Low I. Loss
- High Isolation
- Surface Mountable · RoHS Compliant
- Supplied on T&R ٠
- Power Rating: 10W RF Continuous

ROHS

COMPLIANT

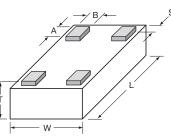
LAND GRID ARRAY **ADVANTAGES:**

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

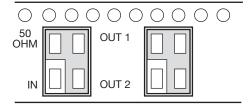
DIMENSIONS:

millimeters (inches									
L	1.60±0.10								
	(0.063±0.004)								
w	0.84±0.10								
vv	(0.033±0.004)								
т	0.60±0.10								
	(0.024±0.004)								
Δ	0.25±0.05								
A	(0.010±0.002)								
в	0.20±0.05								
D	(0.008±0.002)								
c	0.05±0.05								
3	(0.002±0.002)								





ORIENTATION IN TAPE



ELECTRICAL PARAMETERS

Part Number	Freque	ncy 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.	Тур.	Min.	Тур.	Min.	Тур.	Тур.	Max.	Тур.	Max.	Тур.	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

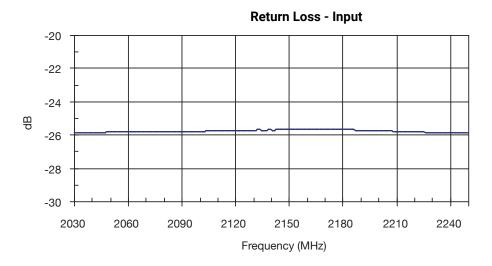
NOTE: Additional Frequencies Available Upon Request

78

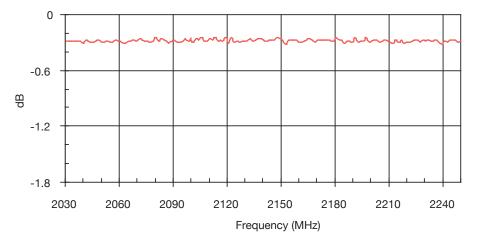


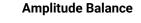


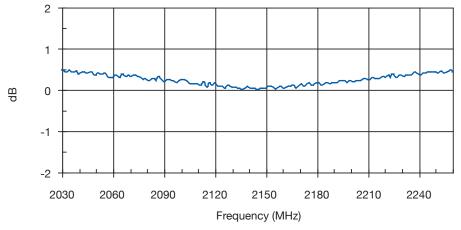
2040MHZ TO 2240MHZ DB0603N2140ANTR







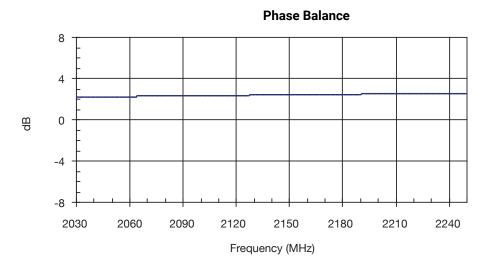


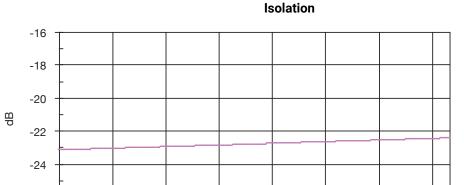






2040MHZ TO 2240MHZ DB0603N2140ANTR





2120

Frequency (MHz)

2150

2180

2210

2240



-26

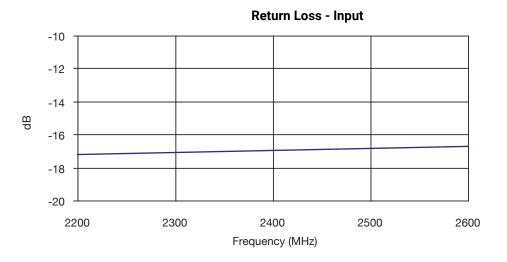
2030

2060

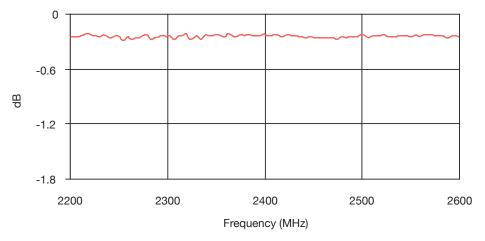
2090



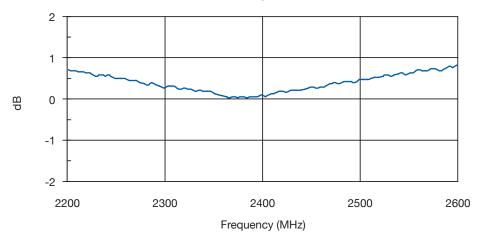
2200MHZ TO 2600MHZ DB0603N2400ANTR







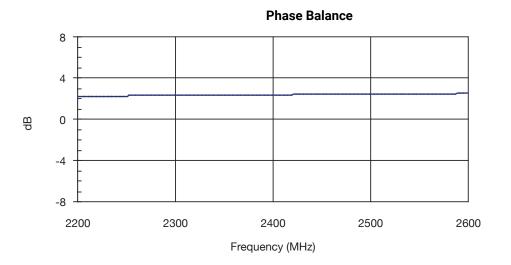
Amplitude Balance

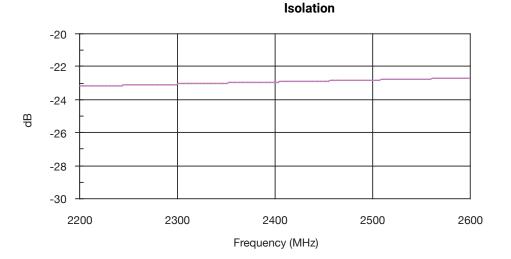






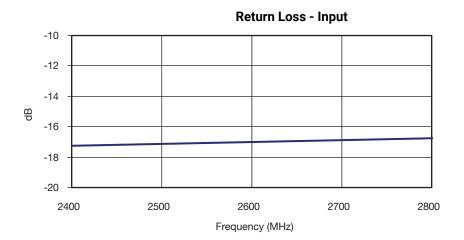
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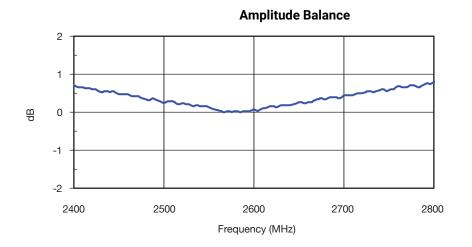




2400MHZ TO 2800MHZ DB0603N2600ANTR



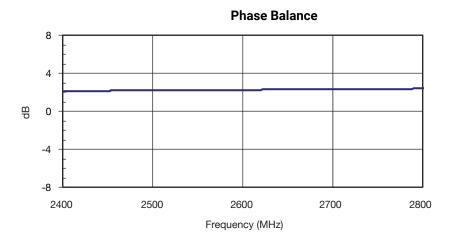


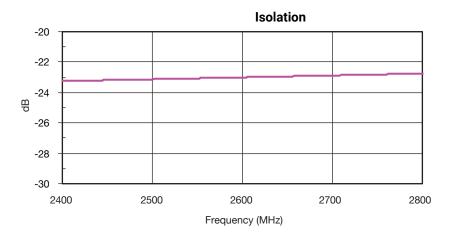






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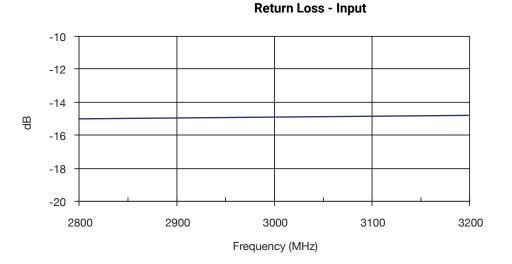




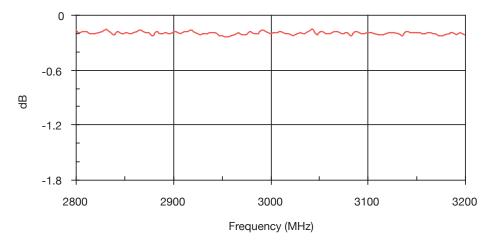




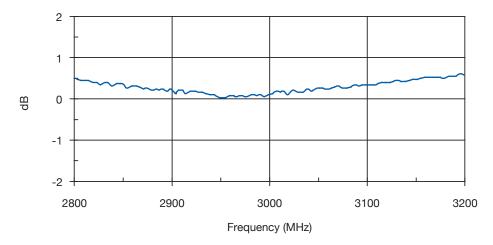
2850MHZ TO 3150MHZ DB0603N3000ANTR



Insertion Loss



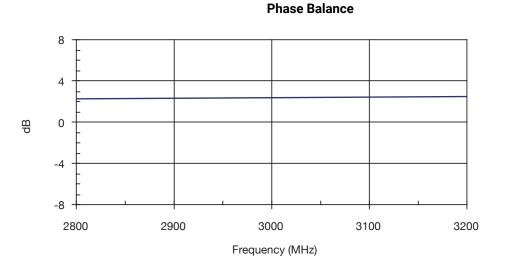
Amplitude Balance



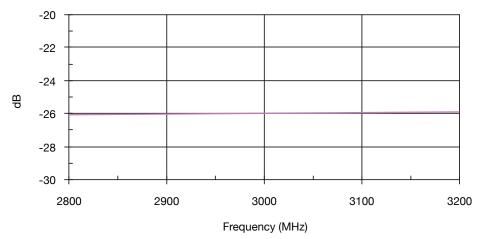




2850MHZ TO 3150MHZ DB0603N3000ANTR

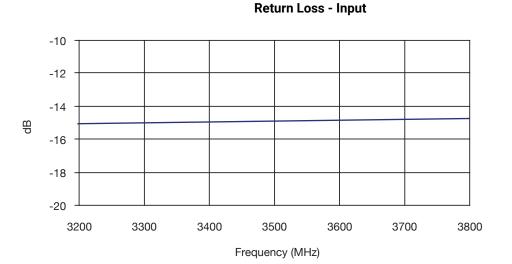




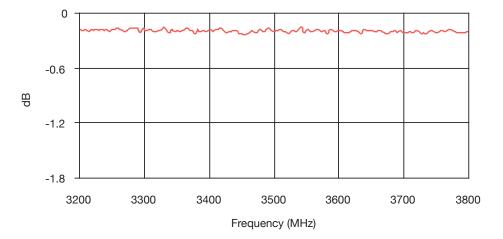




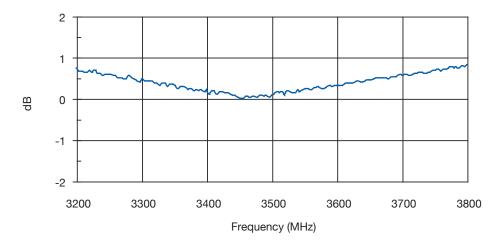
3200MHZ TO 3800MHZ DB0603N3500ANTR



Insertion Loss



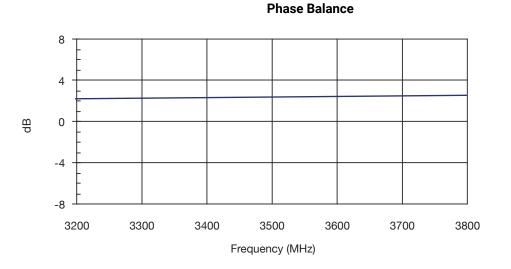
Amplitude Balance



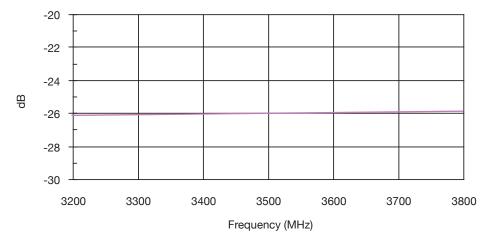




3200MHZ TO 3800MHZ DB0603N3500ANTR



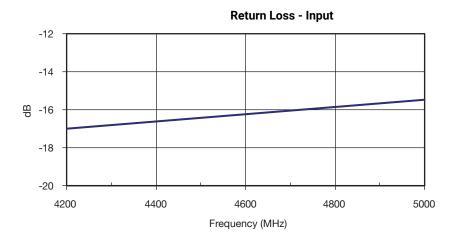


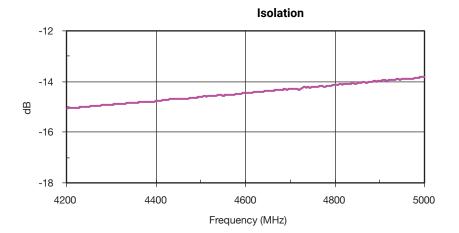






4200MHZ TO 5000MHZ DB0603N4600ANTR



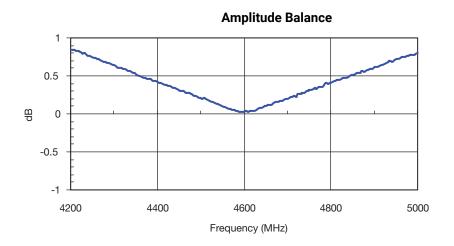


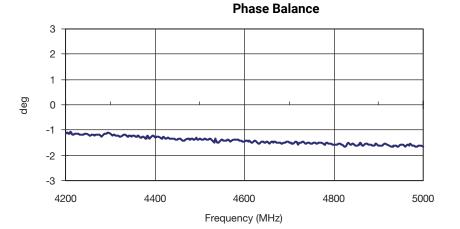


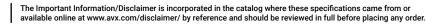




4200MHZ TO 5000MHZ DB0603N4600ANTR

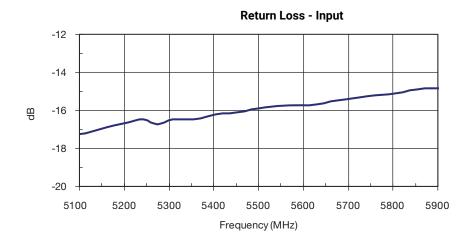


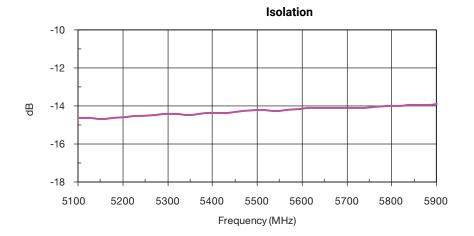






5100MHZ TO 5900MHZ DB0603N5500ANTR



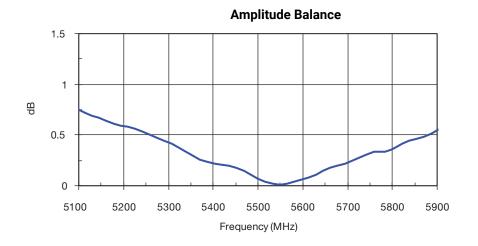


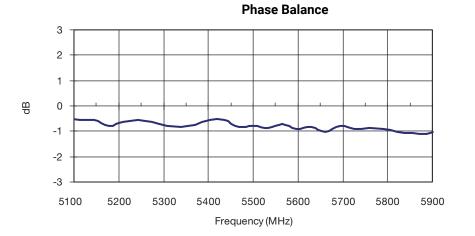






5100MHZ TO 5900MHZ DB0603N5500ANTR

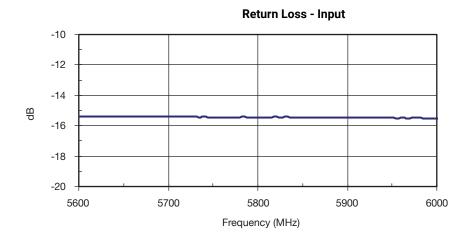


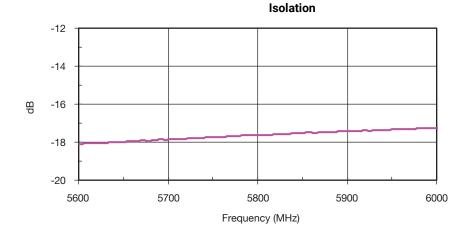


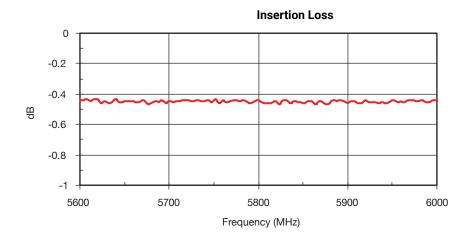




5600MHZ TO 6000MHZ DB0603N5800ANTR



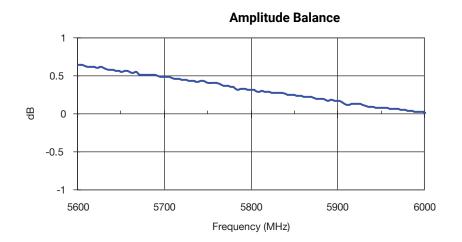


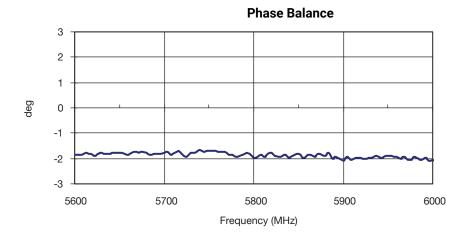


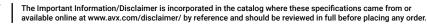




5600MHZ TO 6000MHZ DB0603N5800ANTR







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