

Thin-Film RF/Microwave Directional Couplers

CP0302/CP0402/CP0603/CP0805 and DB0603N/DB0805 3dB 90° DB0805 3dB 90° Couplers



GENERAL DESCRIPTION ITF TECHNOLOGY

The ITF SMD 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 ITF 3dB 90° Coupler is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

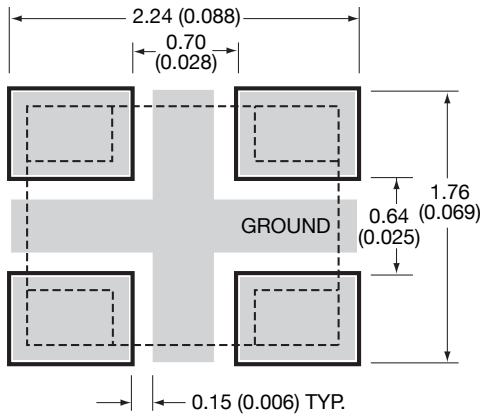
APPLICATIONS

- Balanced Amplifiers and Signal Distribution in Mobile Communications

FEATURES

- Miniature 0805 size
- Low I. Loss
- High Isolation
- Power Handling: 10W RF CW
- Surface Mountable
- Supplied on Tape & Reel
- Operating Temperature -40°C to +85°C

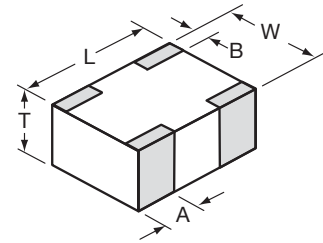
RECOMMENDED PAD LAYOUT DIMENSIONS: millimeters (inches)



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L	2.03±0.10 (0.080±0.004)
W	1.55±0.10 (0.061±0.004)
T	0.98±0.15 (0.037±0.006)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

BOTTOM VIEW



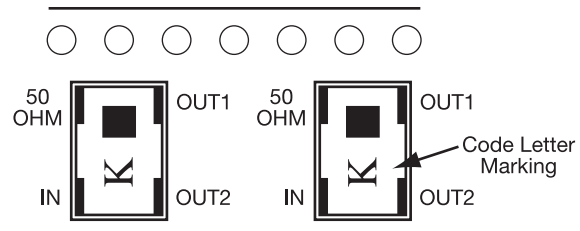
ELECTRICAL PARAMETERS*

Part Number**	Frequency FO [MHz]	I. Loss @ F _o [dB]	Phase Balance [deg] max.	Code Letter Marking
DB0805A0870ASTR	870±70	0.4	3	Y
DB0805A0880ASTR	880±30	0.35	3	Y
DB0805A0915ASTR	915±30	0.35	3	V
DB0805A0967ASTR	967±30	0.35	3	V
DB0805A1176ASTR	1176±13	0.2	3	G
DB0805A1350ASTR	1350±50	0.35	3	C
DB0805A1376ASTR	1376±211	0.6	8	G
DB0805A1650ASTR	1650±50	0.35	3	F
DB0805A1800ASTR	1800±50	0.30	3	F
DB0805A1850ASTR	1850±50	0.30	3	K
DB0805A1900ASTR	1900±50	0.30	3	K
DB0805A1950ASTR	1950±50	0.25	3	K
DB0805A2140ASTR	2140±50	0.25	3	L
DB0805A2325ASTR	2325±50	0.25	3	T

*With Recommended Pad Layout

NOTE: Additional Frequencies Available Upon Request

TERMINALS (TOP VIEW) ORIENTATION IN TAPE



**LEAD FREE TERMINATION

PART NUMBERS:
DB0805AXXXASTR

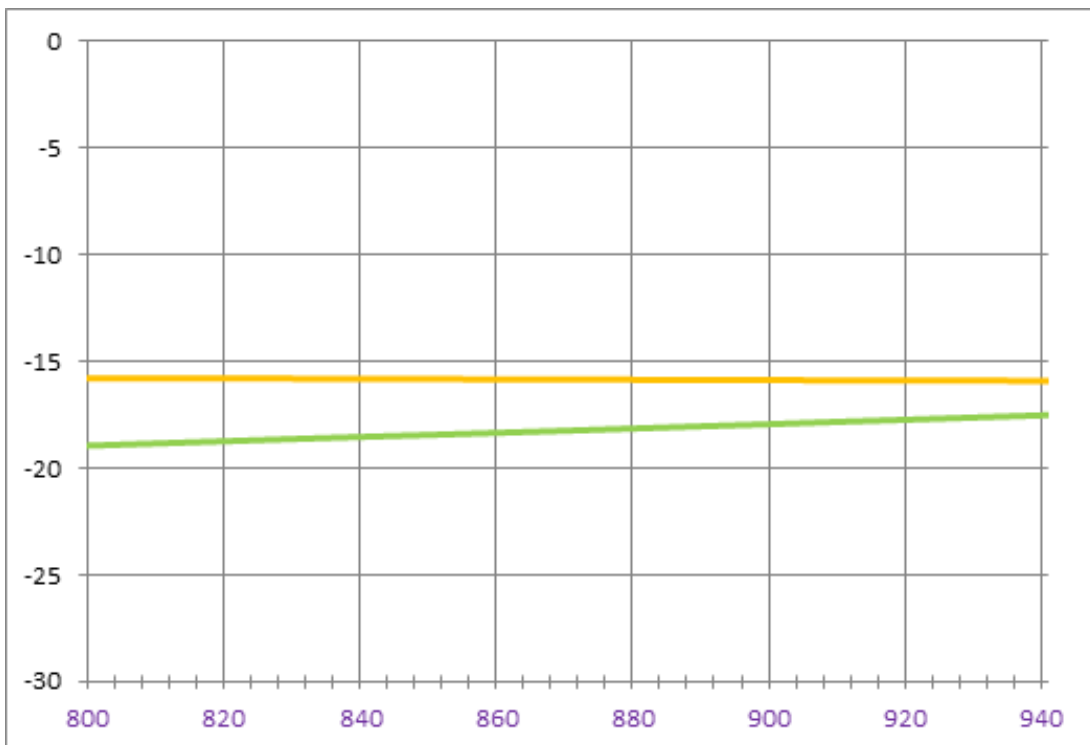
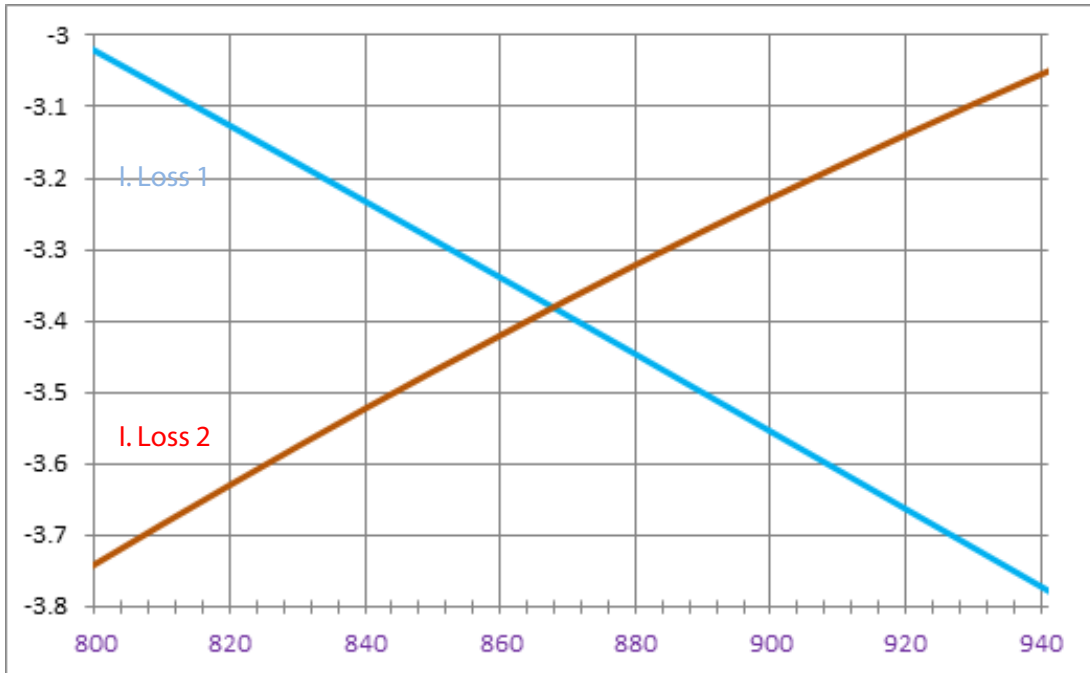


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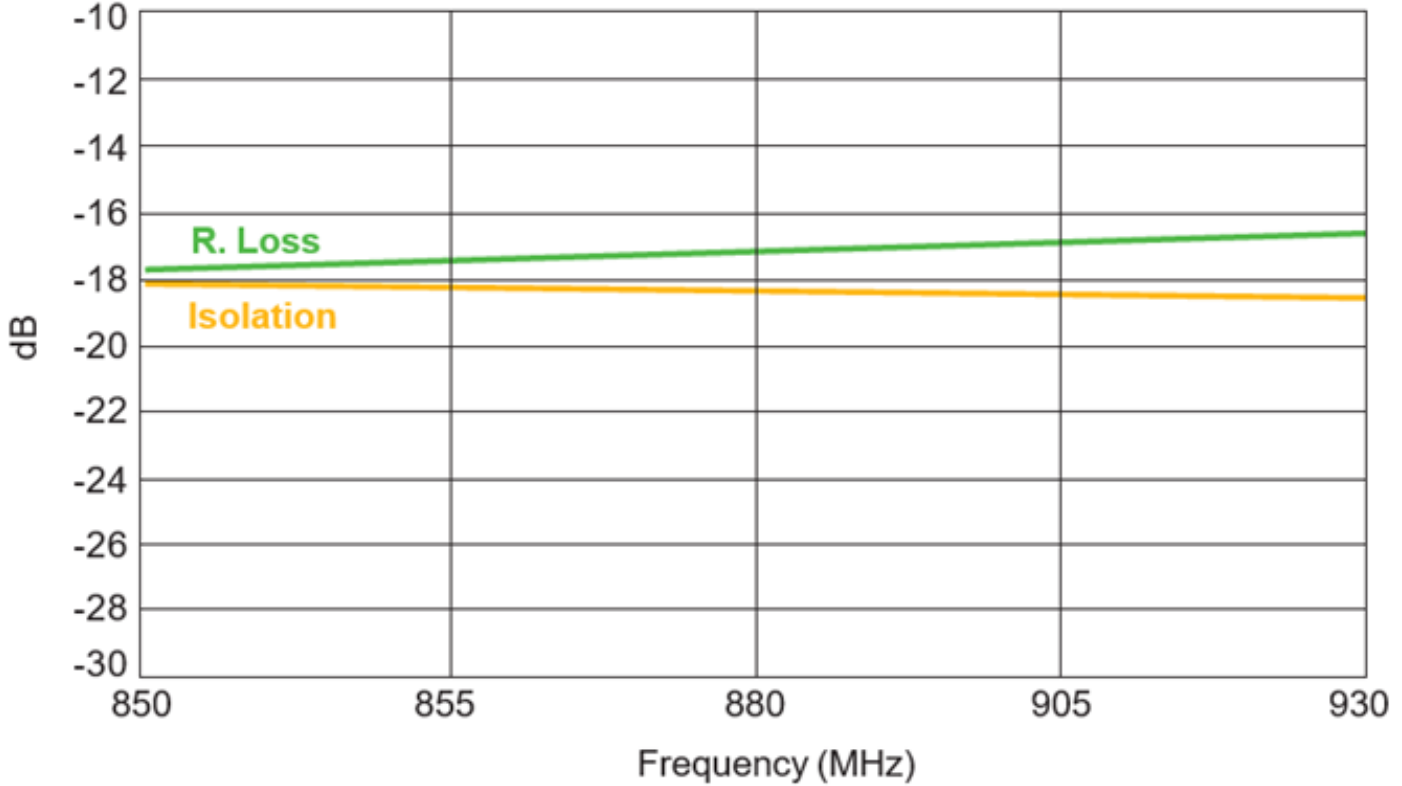
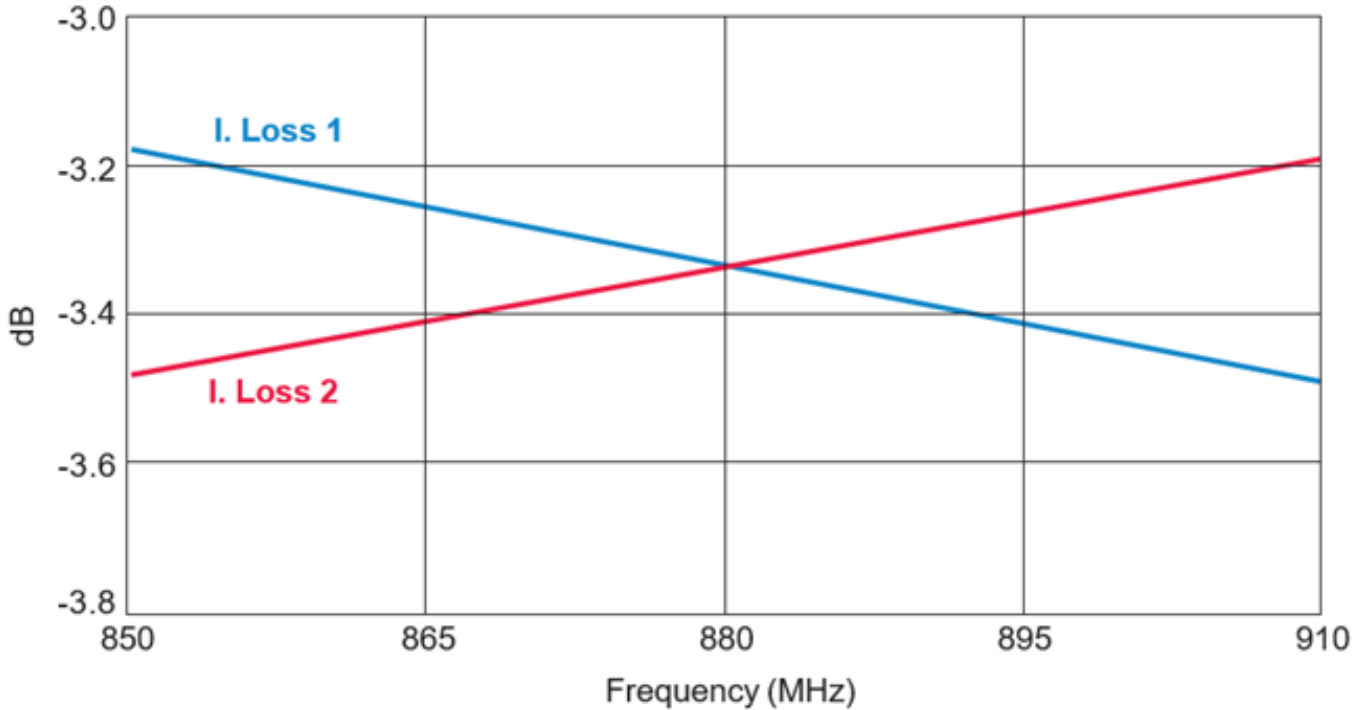
870 ± 13MHZ DB0805A0870ASTR



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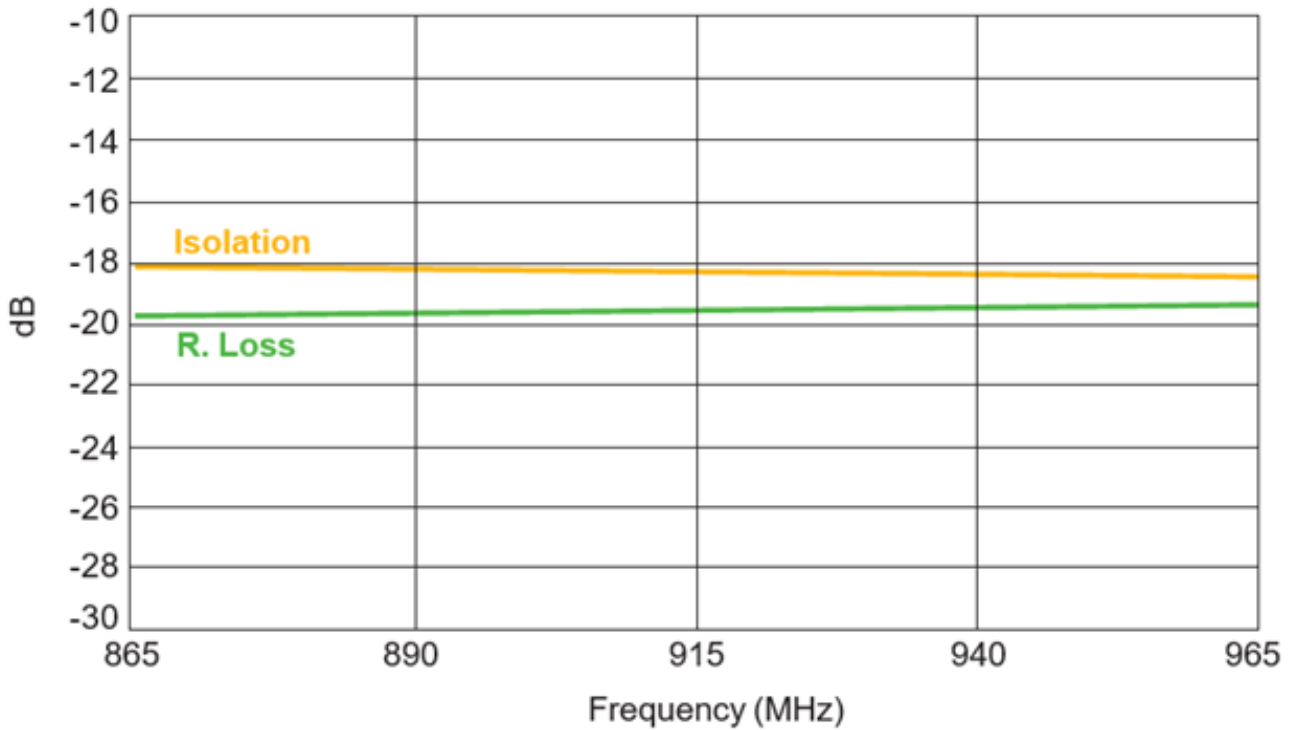
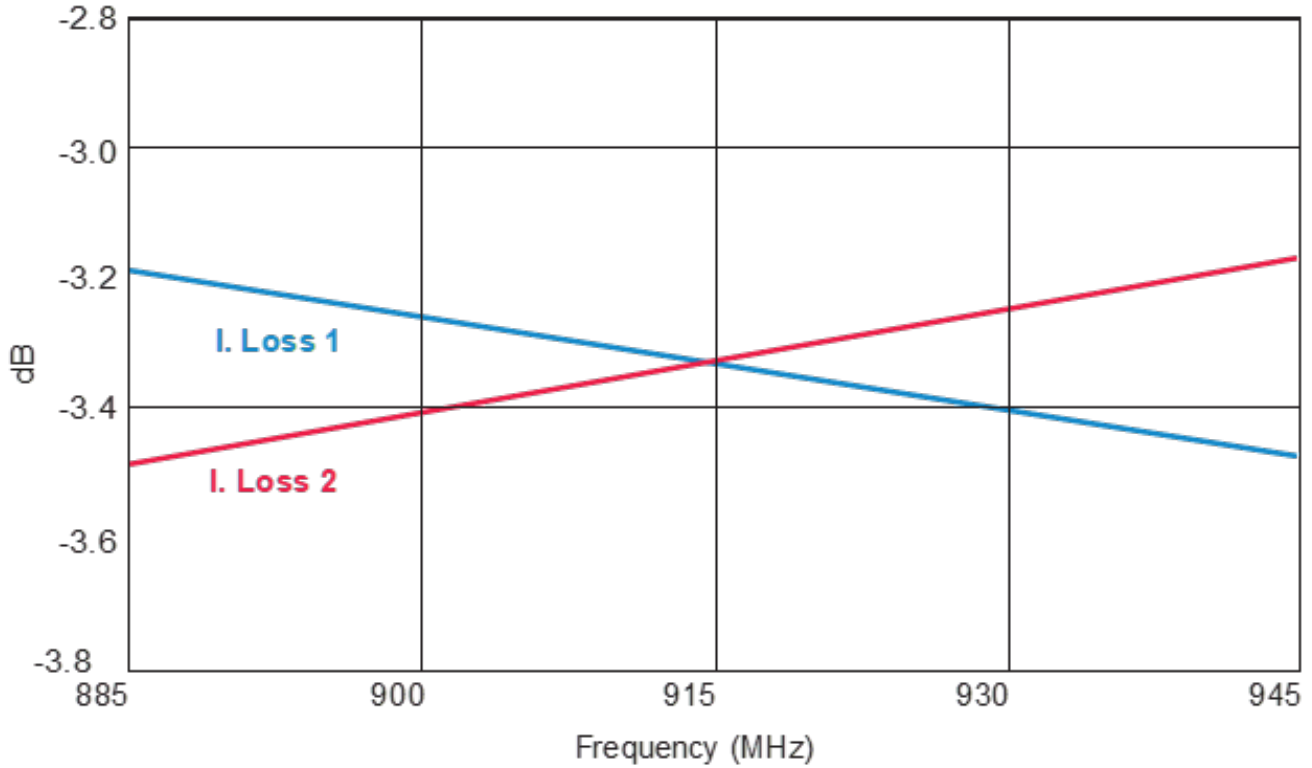
880 ± 30MHZ DB0805A0880ASTR



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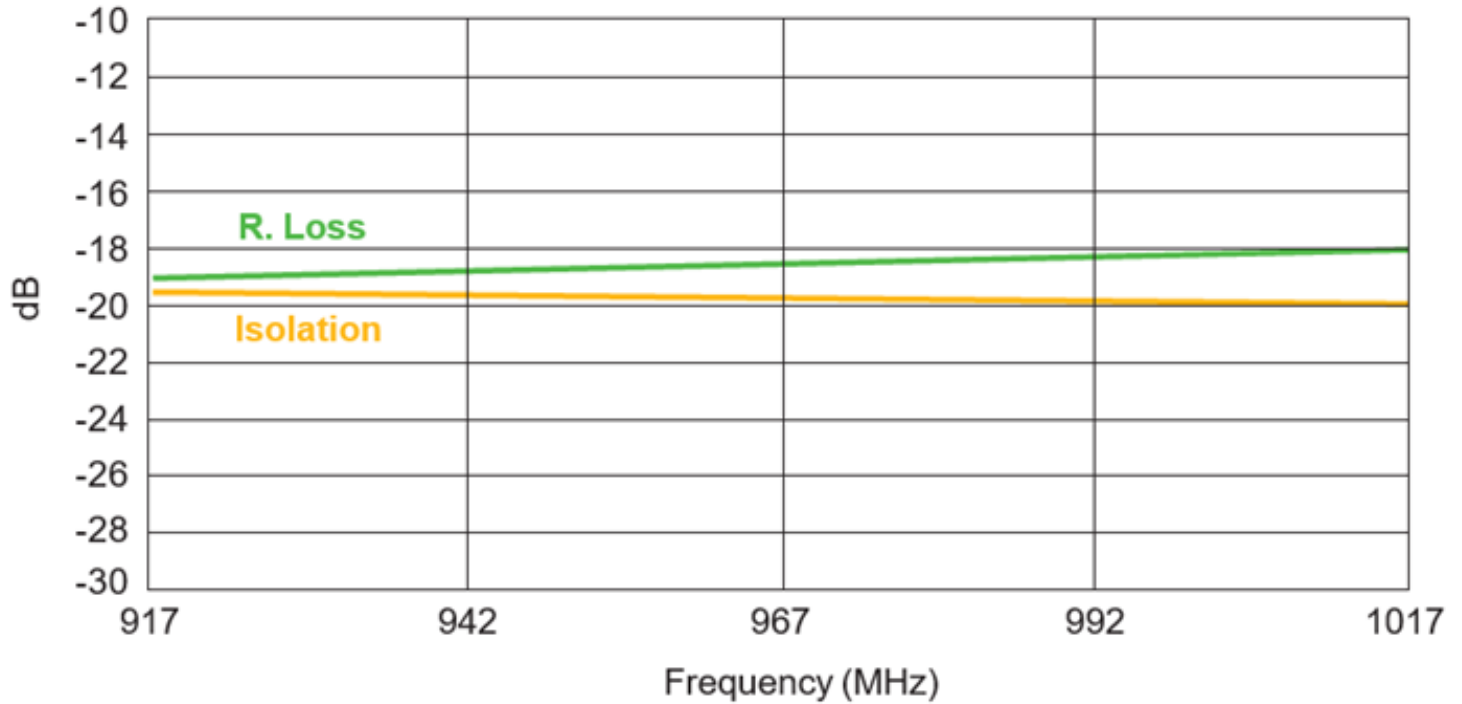
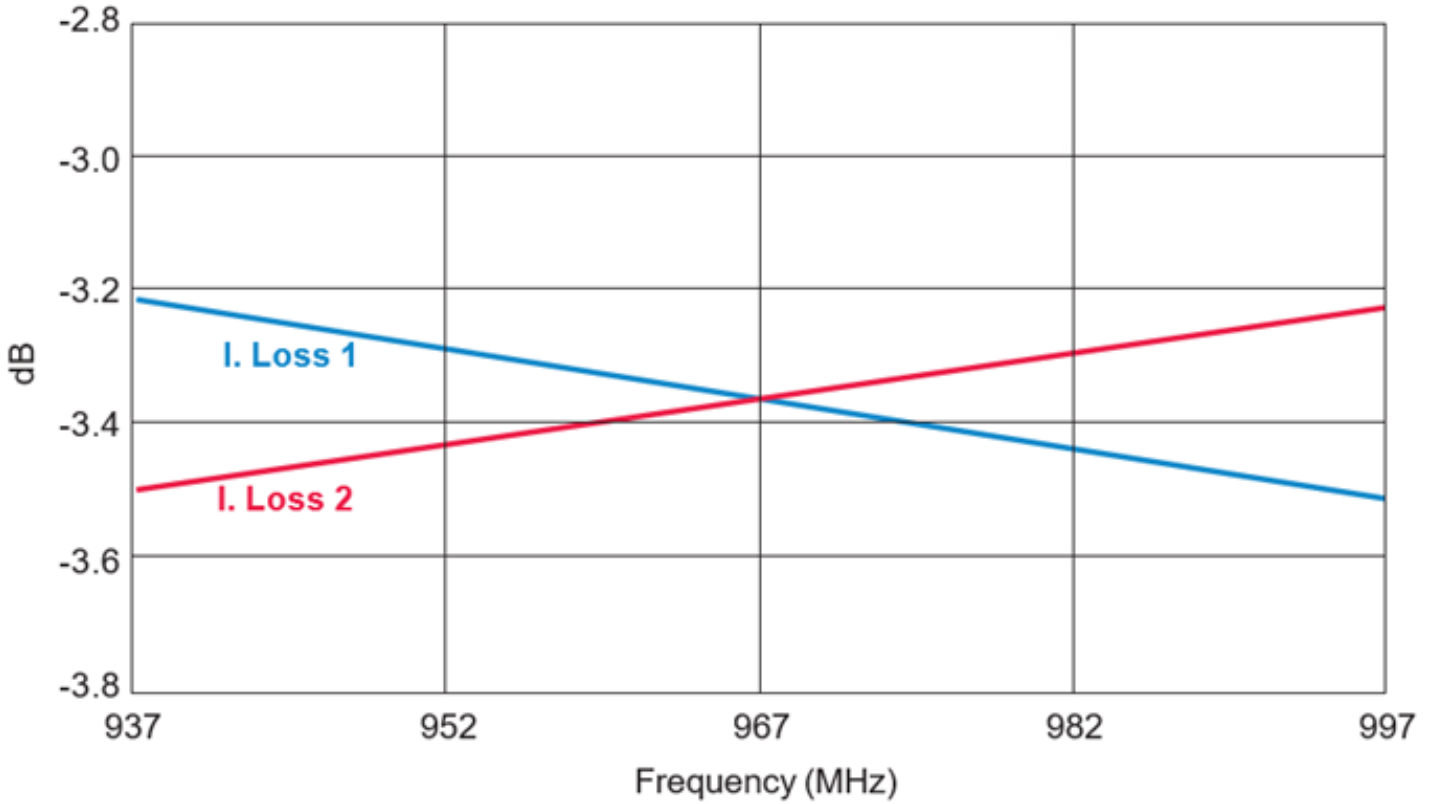
915 ± 30MHz DB0805A0915ASTR



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967± 30MHZ DB0805A0967ASTR

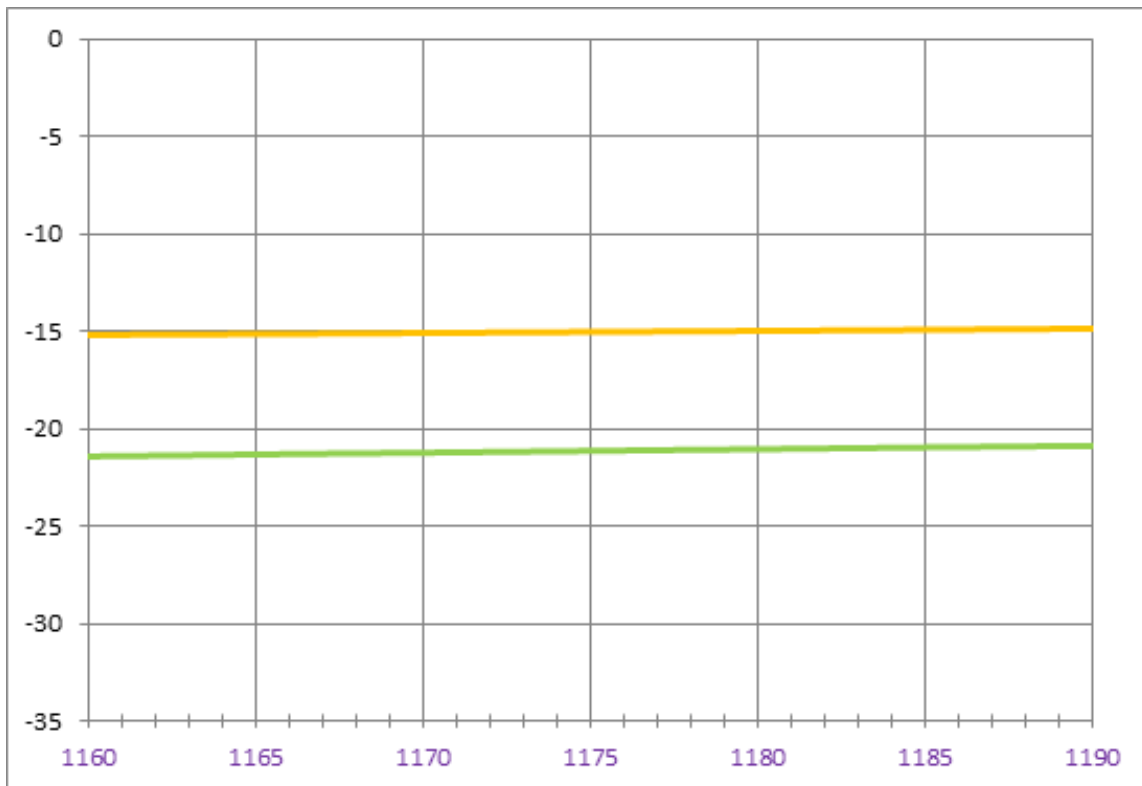
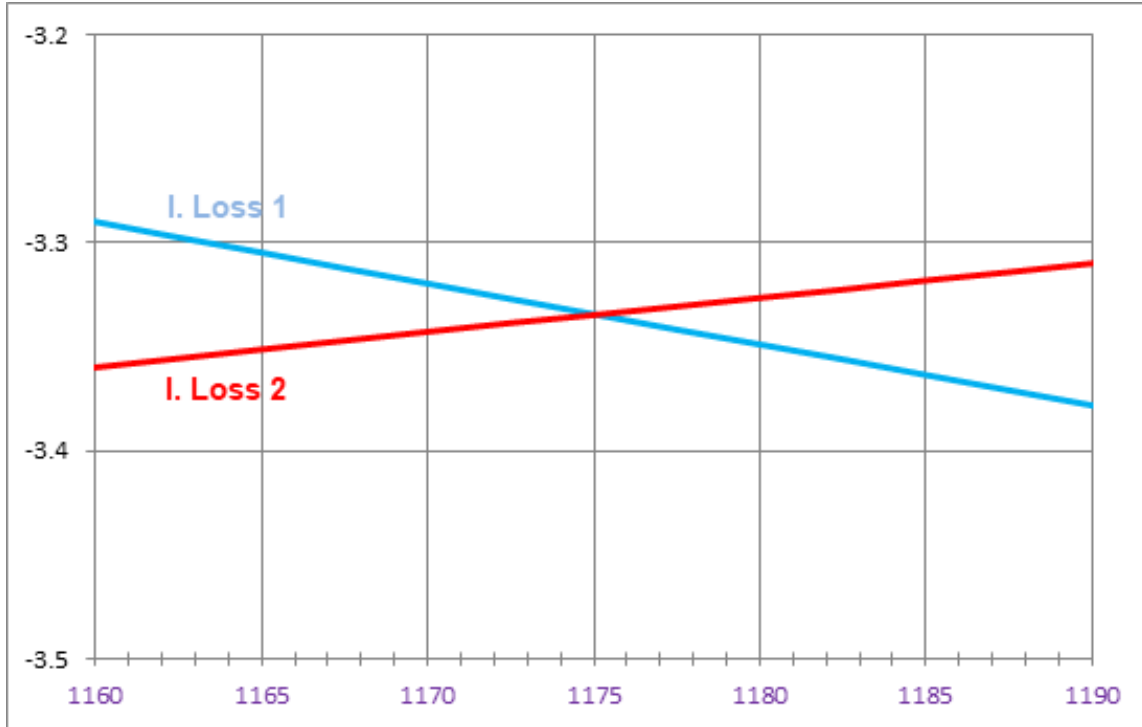


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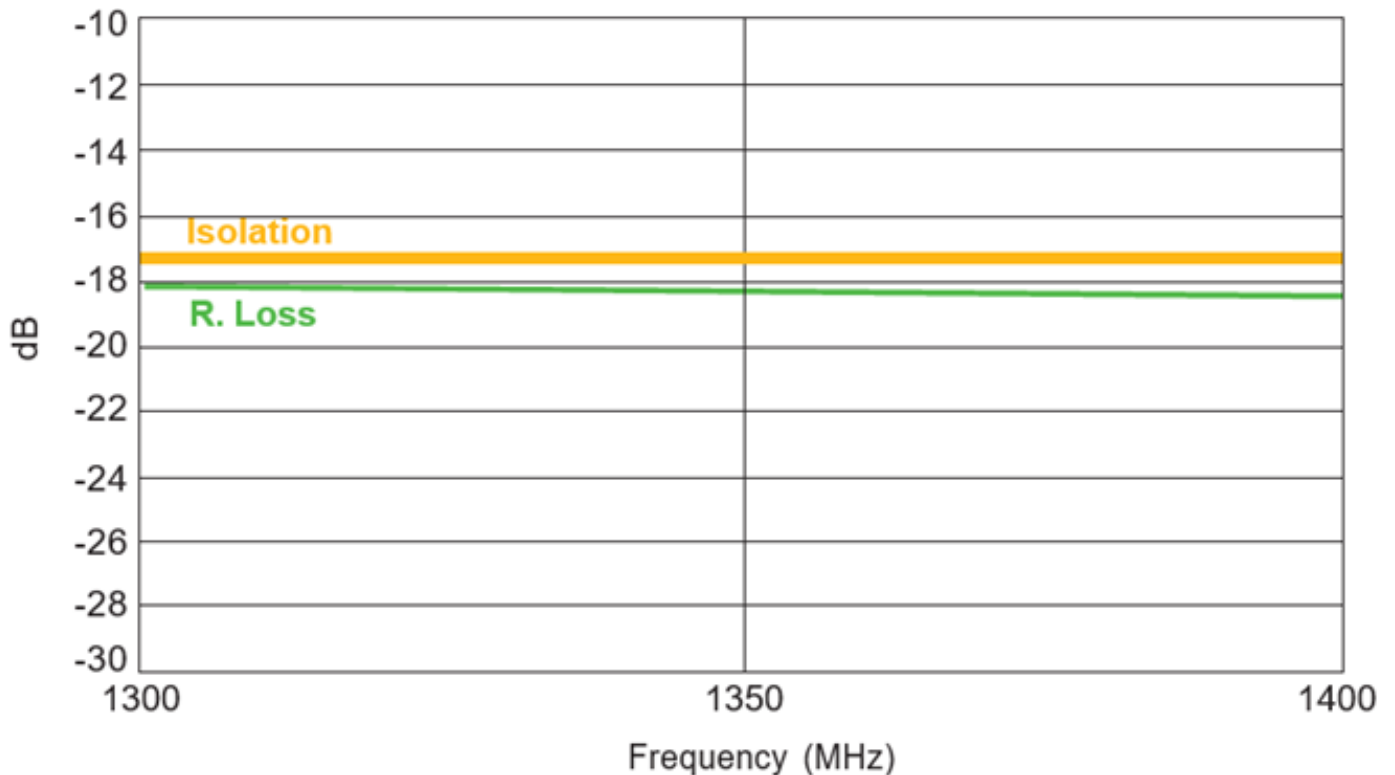
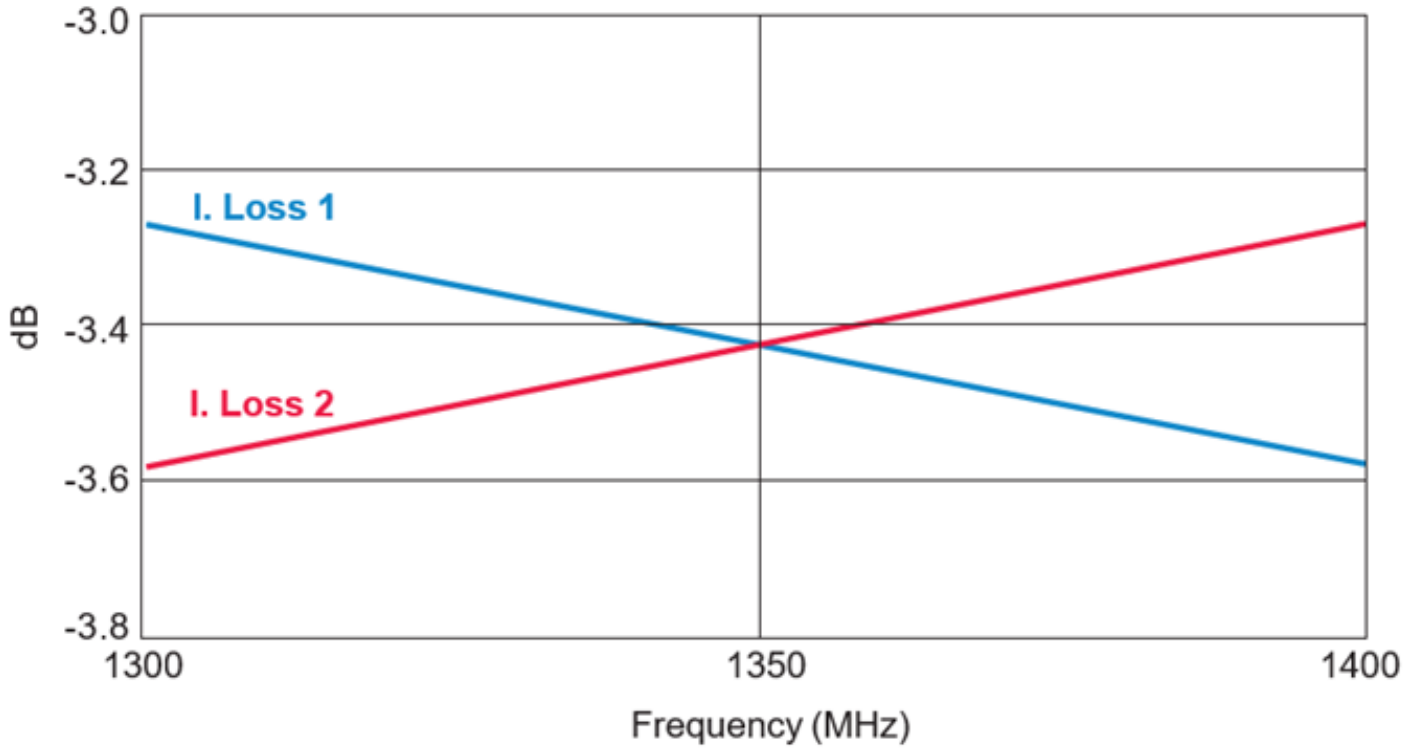
1176 ± 13MHZ DB0805A1176ASTR (L1 BAND)



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1350 ± 50MHz DB0805A1350ASTR



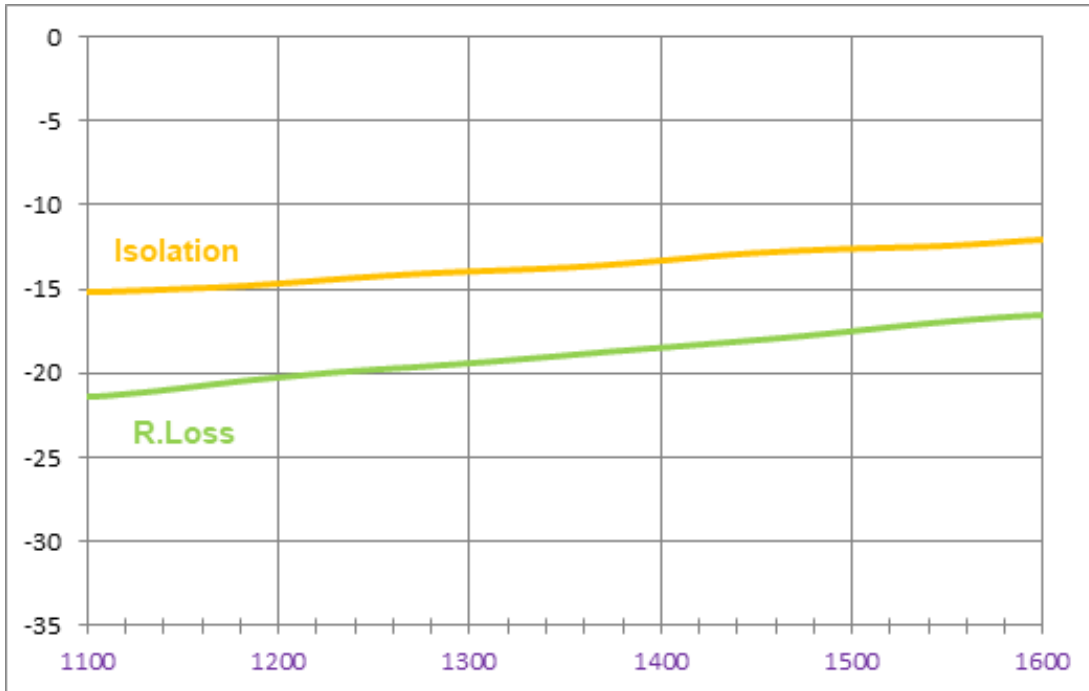
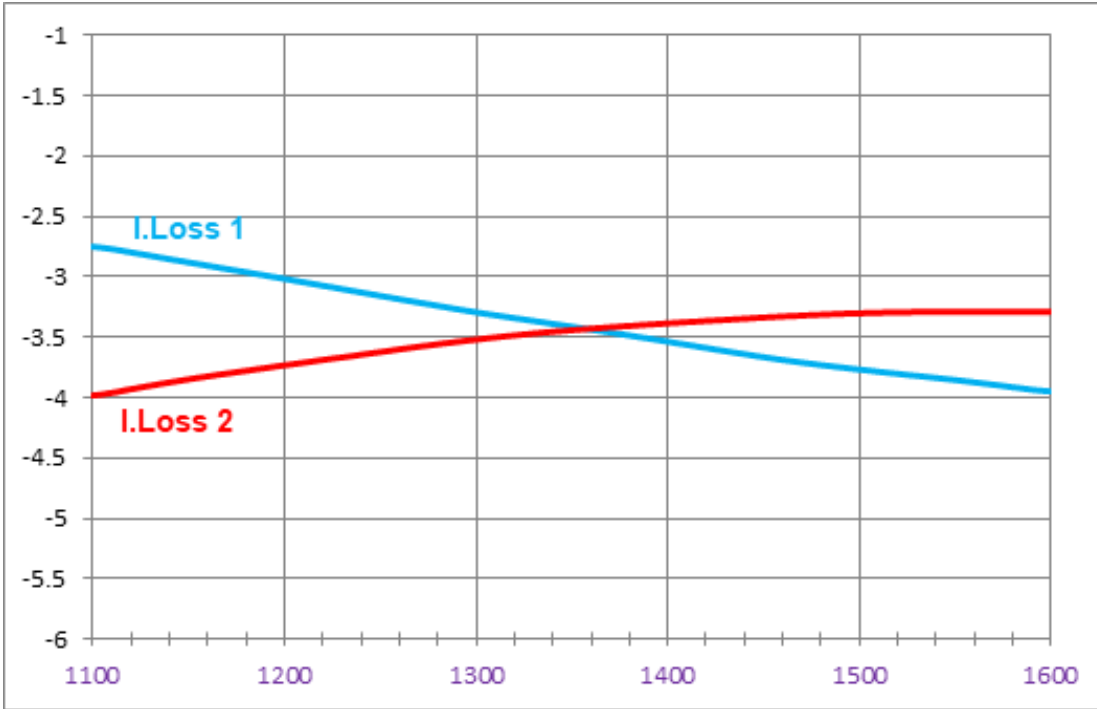
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DB0805 3dB 90° Couplers



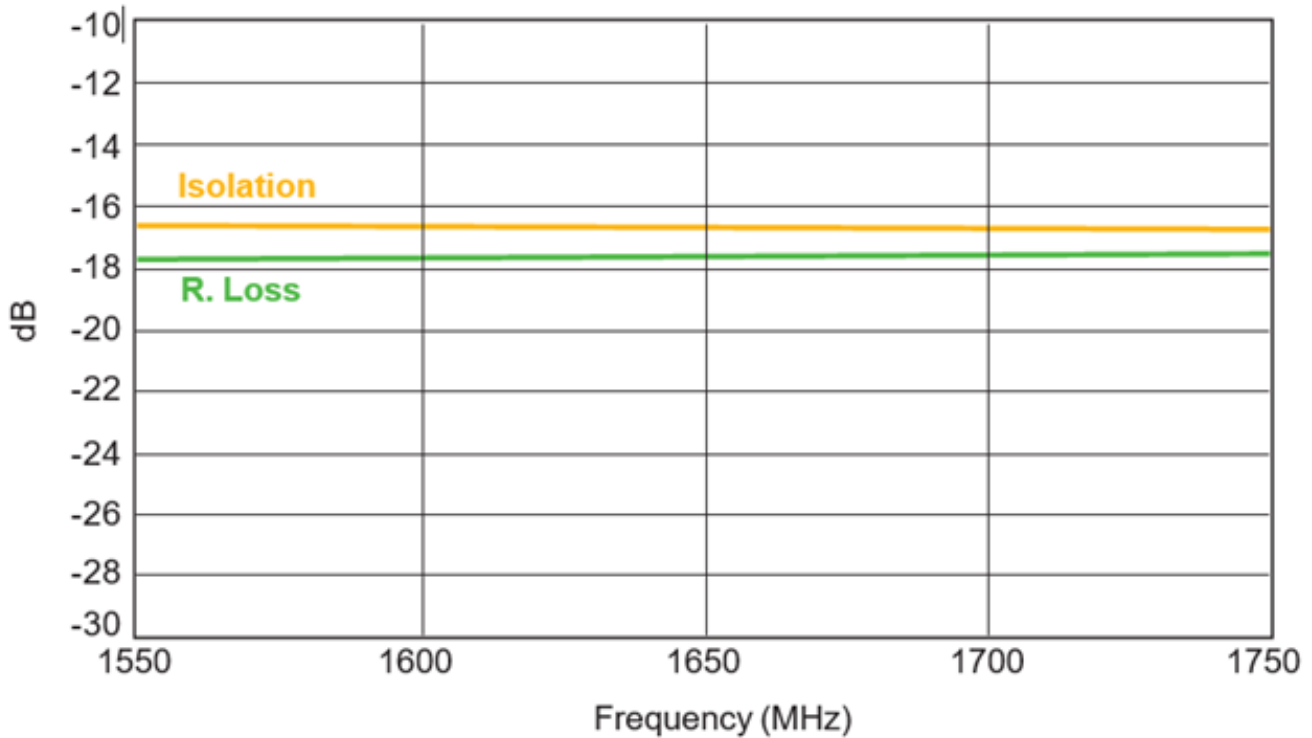
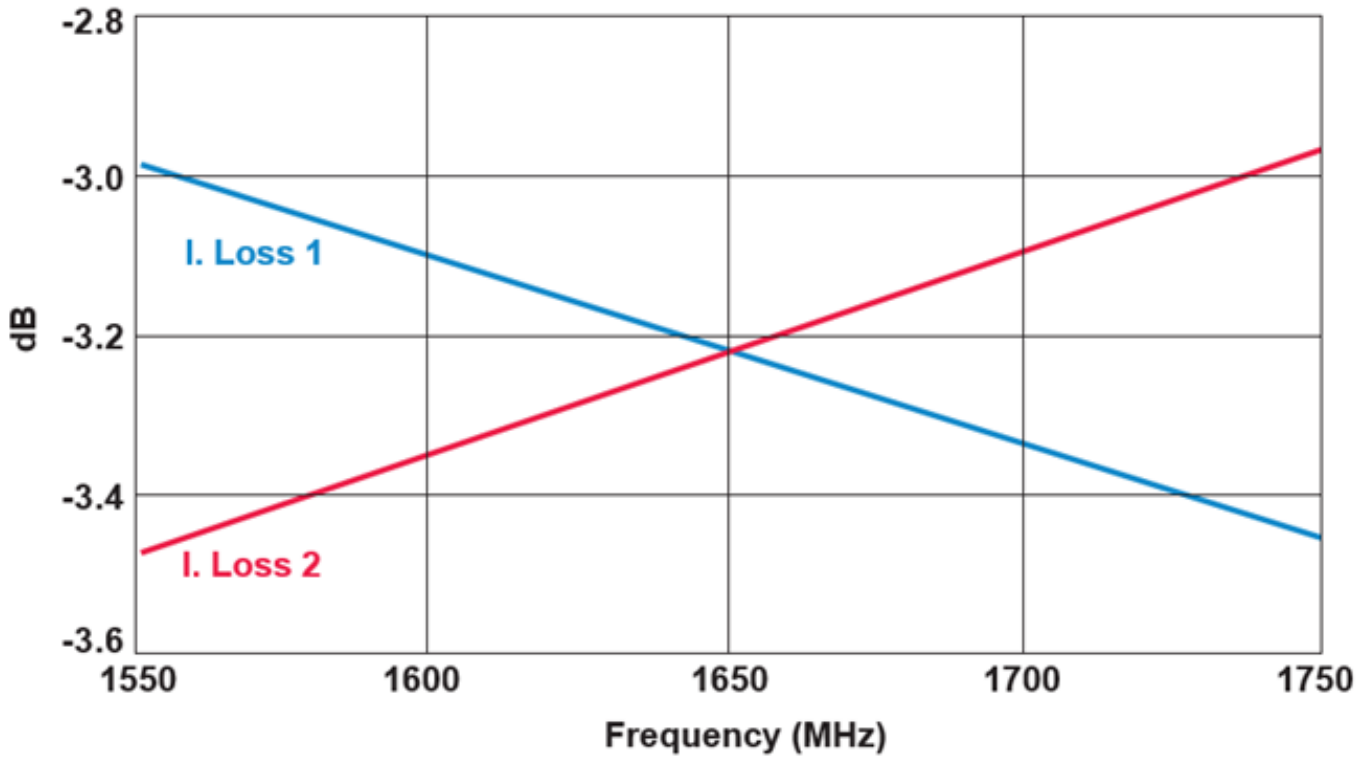
1376 ± 210 MHZ DB0805A1376ASTR (L5 BAND)



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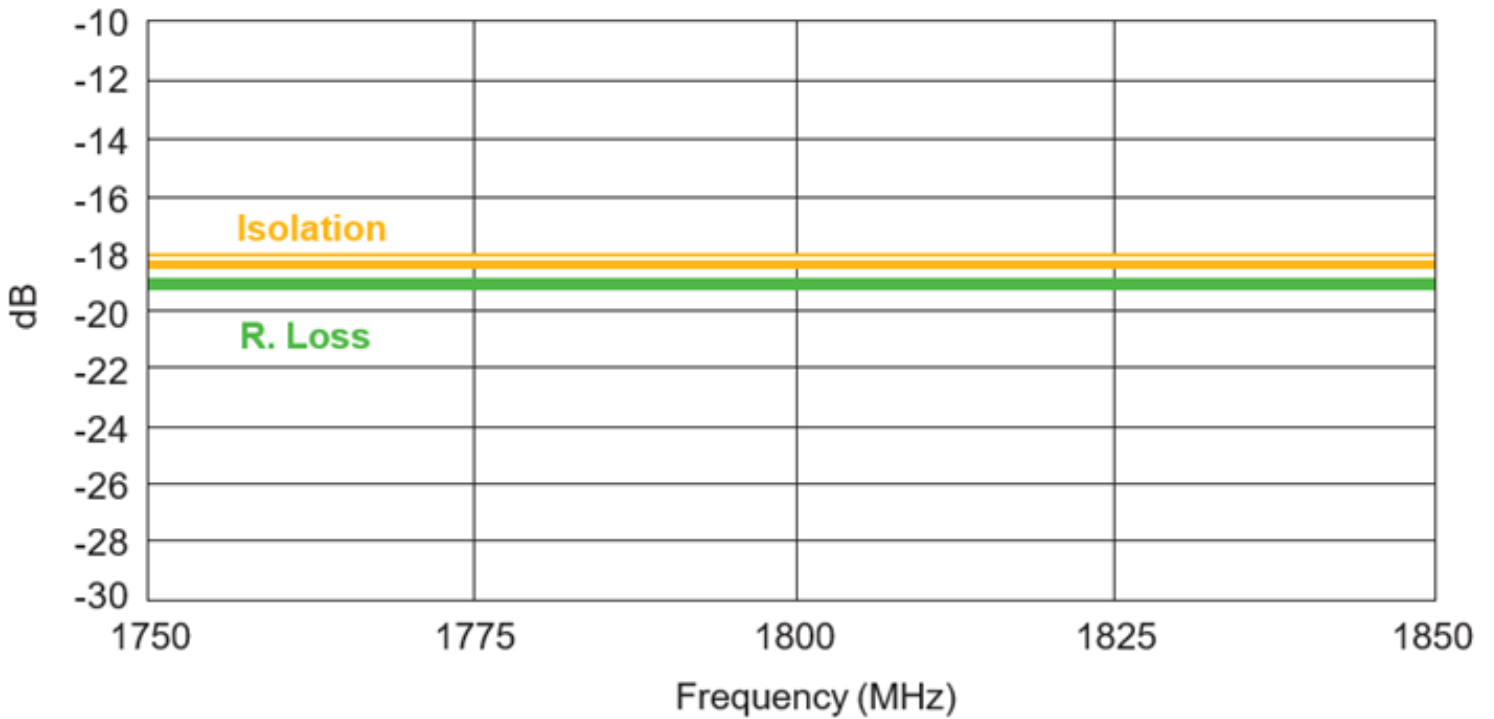
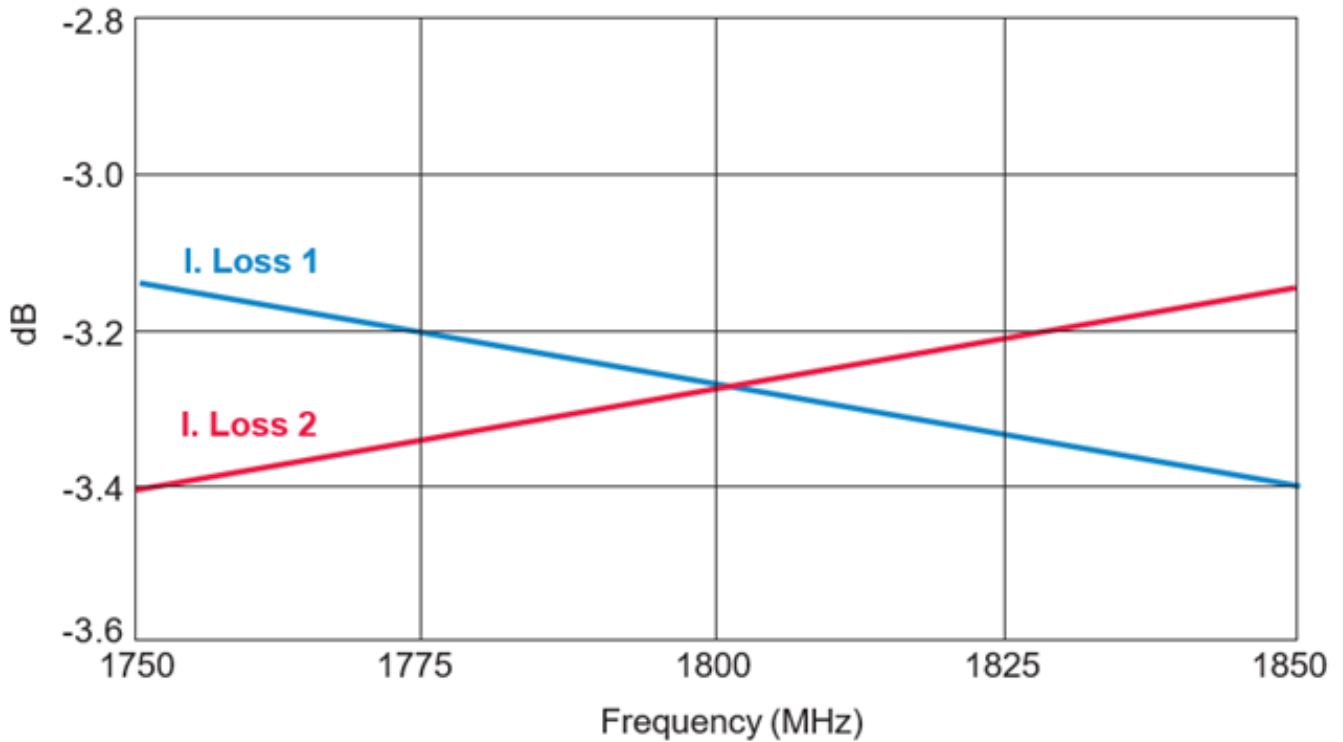
1650 ± 50MHz DB0805A1650ASTR



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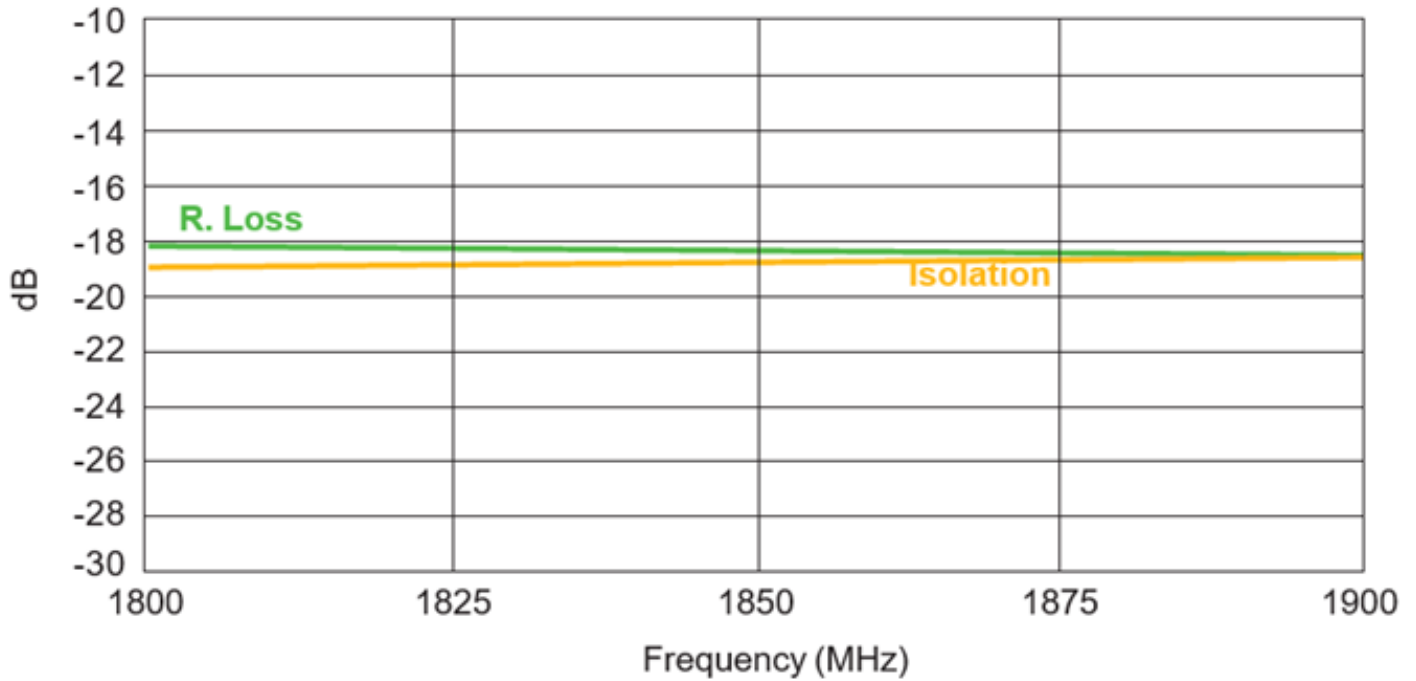
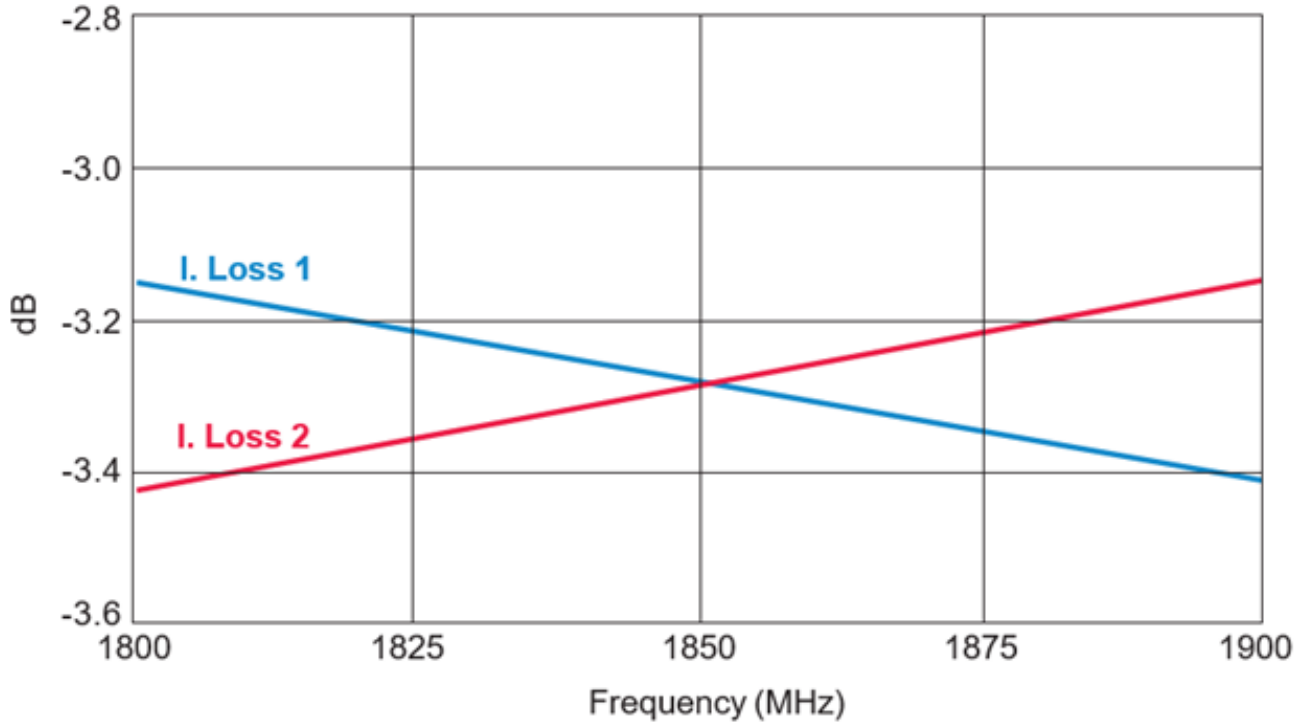
1800 ± 50MHz DB0805A1800ASTR



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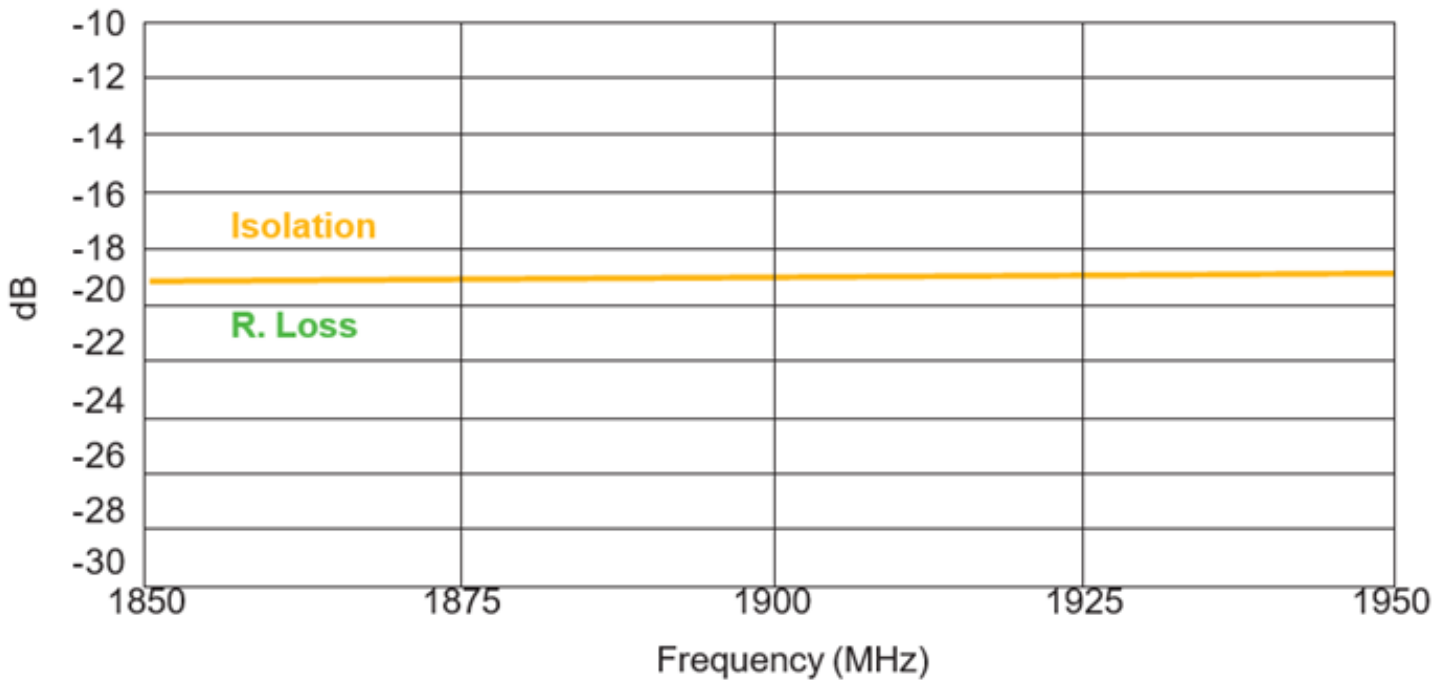
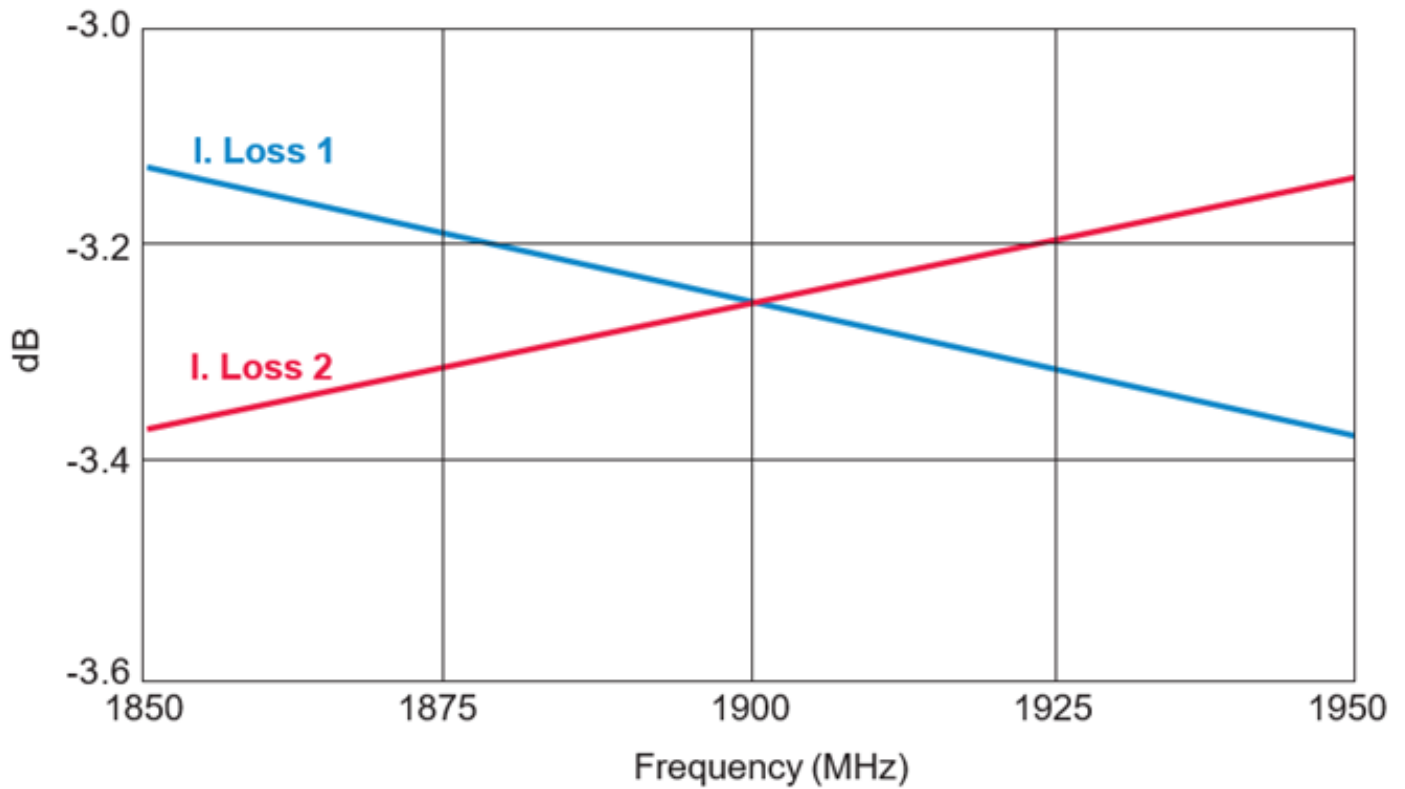
1850 ± 50MHz DB0805A1850ASTR



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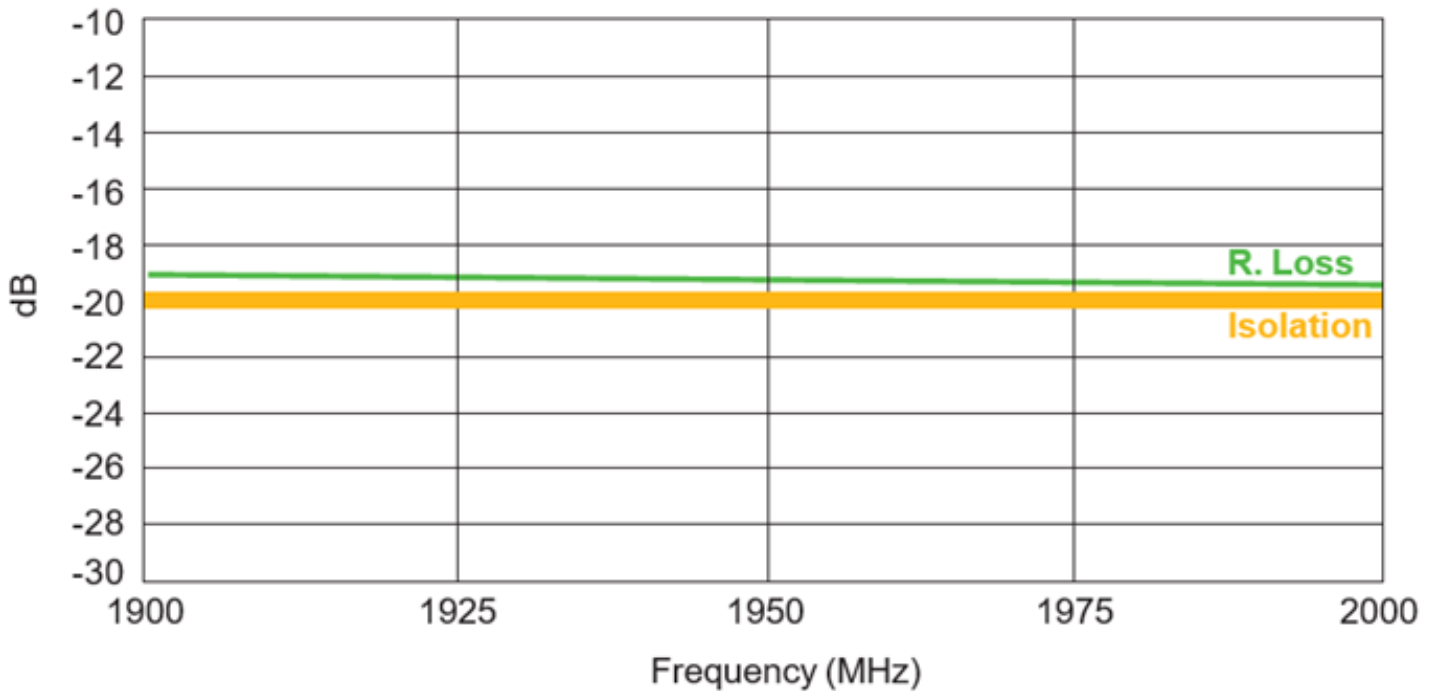
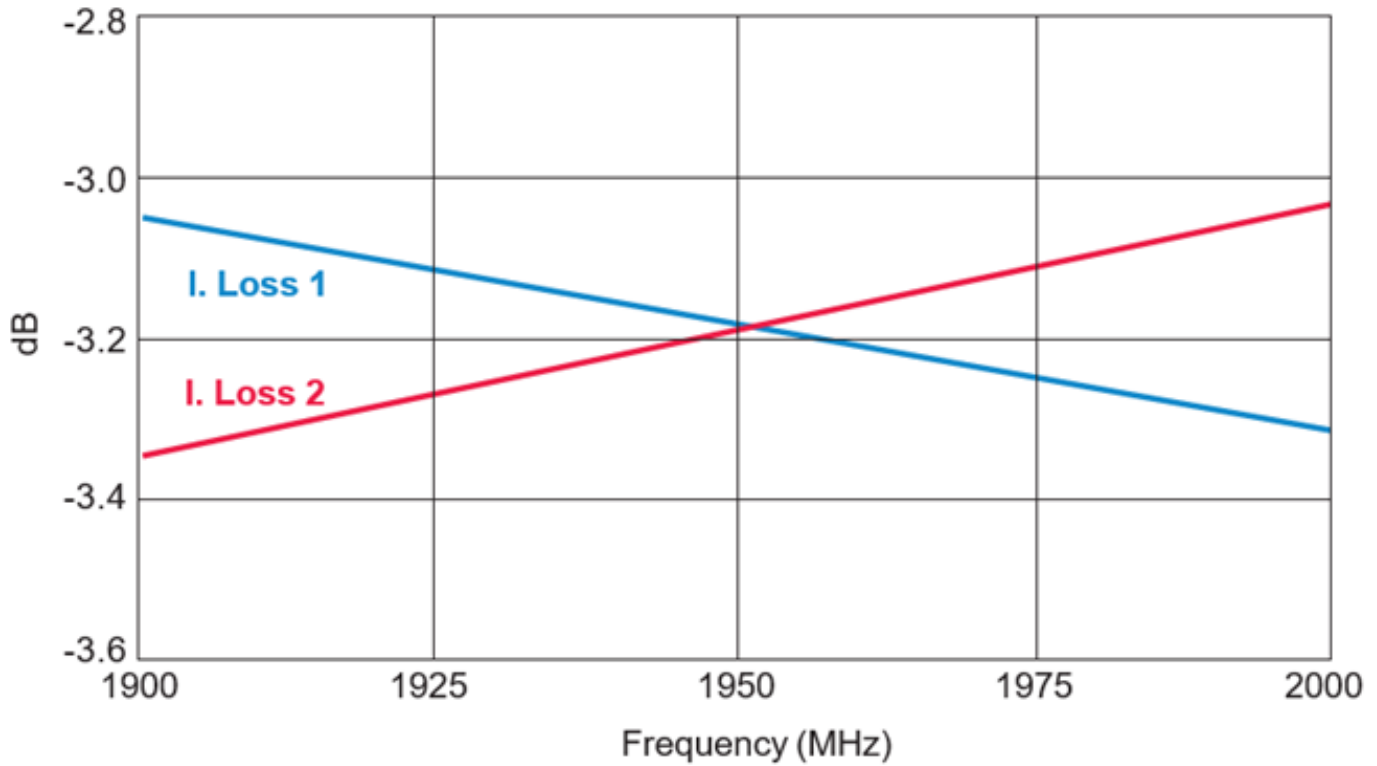
1900 ± 50MHz DB0805A1900ASTR



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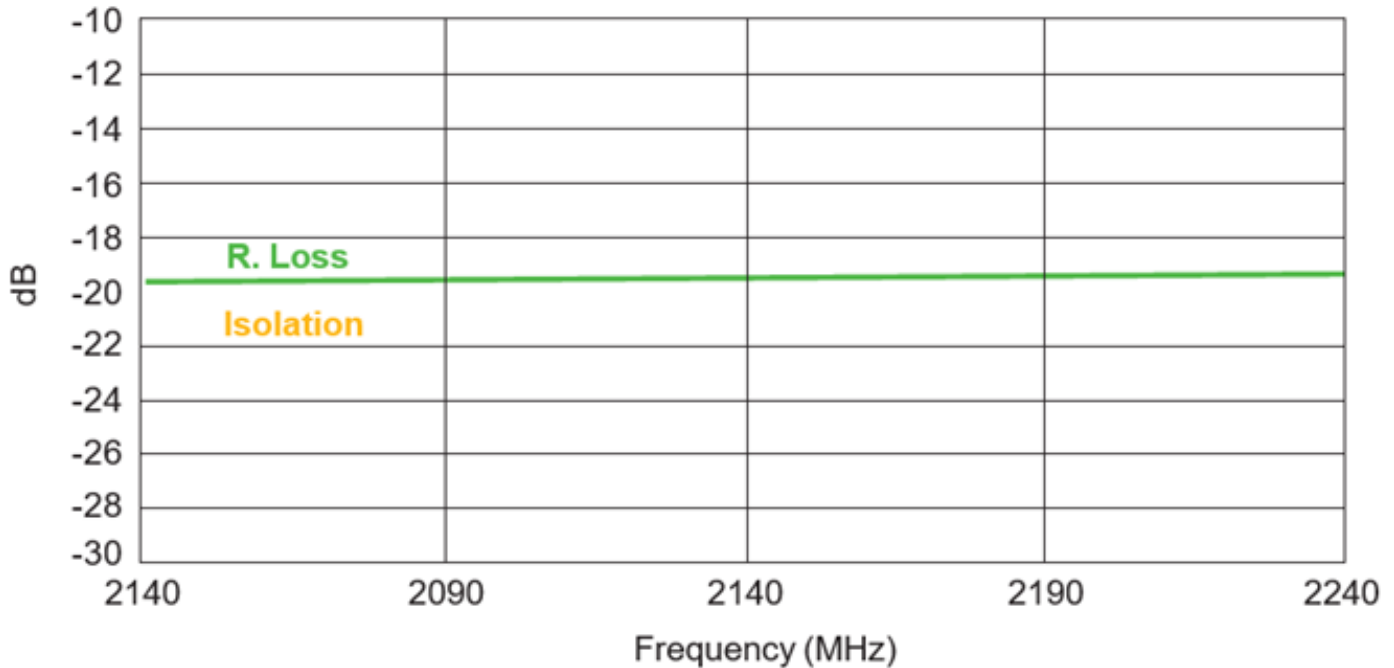
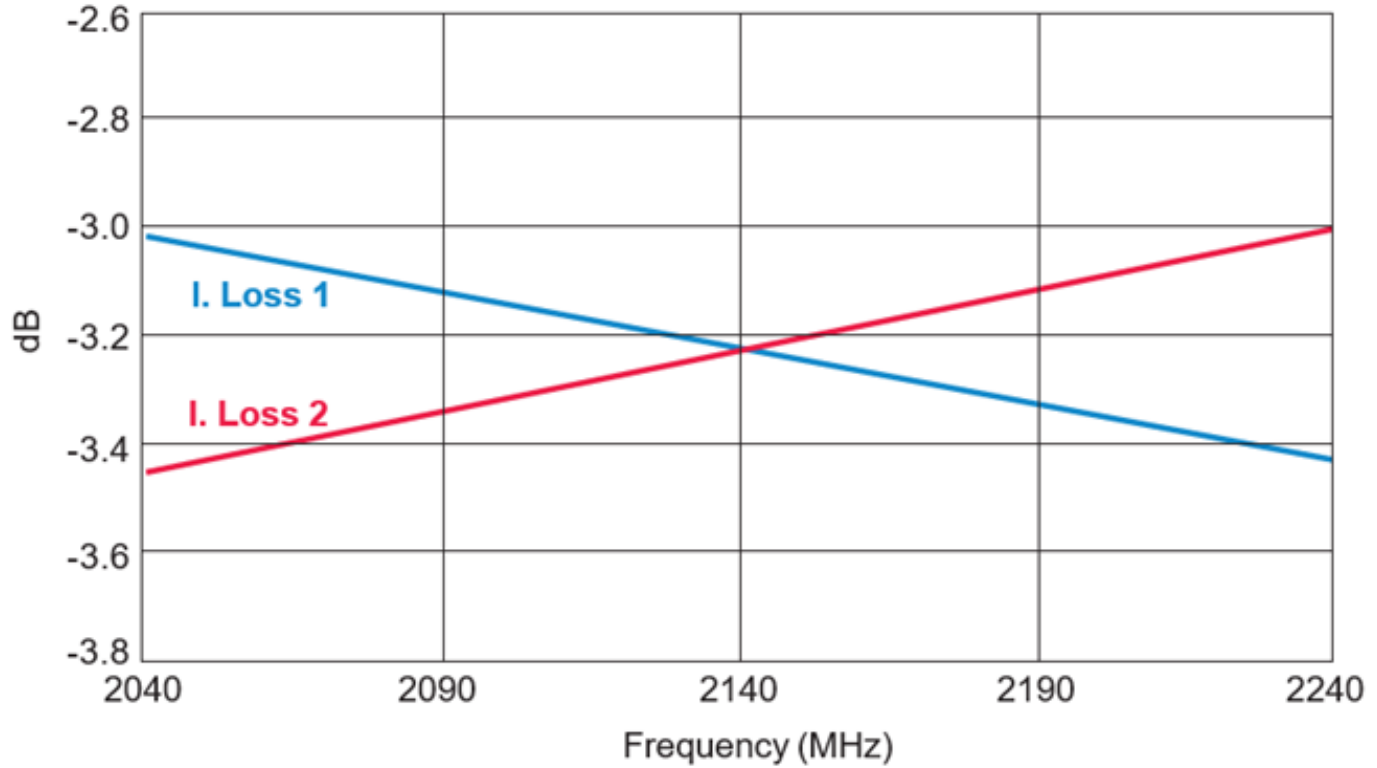
1950 ± 50MHz DB0805A1950ASTR



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2140 ± 50MHz DB0805A2140ASTR



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2325 ± 50MHz DB0805A2325ASTR

