

Thin-Film Directional Couplers

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.

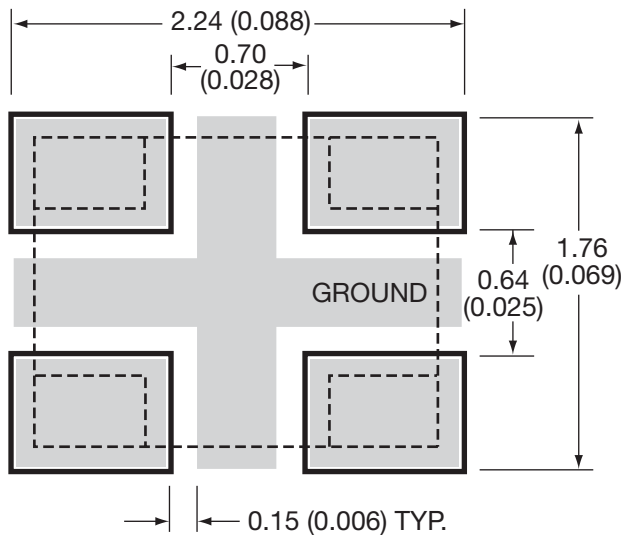
APPLICATIONS

- 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 and Reel
- Operating Temperature -40°C to +85°C

Recommended Pad Layout Dimensions mm (inches)

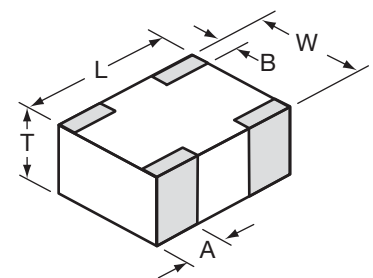


DIMENSIONS:

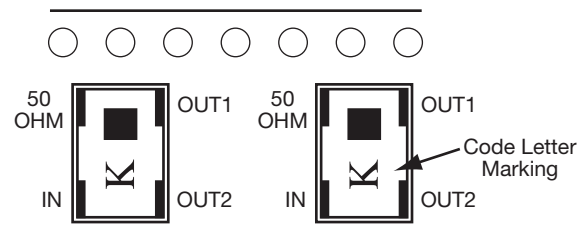
millimeters (inches)

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



TERMINALS (Top View) Orientation in Tape



ELECTRICAL PARAMETERS*

Part Number**	Frequency F ₀ [MHz]	I. Loss @ F ₀ [dB]	Phase Balance [deg] max.	Code Letter Marking
DB0805A0880AWTR	880±30	0.35	3	Y
DB0805A0915AWTR	915±30	0.35	3	V
DB0805A0967AWTR	967±30	0.35	3	V
DB0805A1350AWTR	1350±50	0.35	3	C
DB0805A1650AWTR	1650±50	0.35	3	F
DB0805A1800AWTR	1800±50	0.30	3	F
DB0805A1850AWTR	1850±50	0.30	3	K
DB0805A1900AWTR	1900±50	0.30	3	K
DB0805A1950AWTR	1950±50	0.25	3	K
DB0805A2140AWTR	2140±50	0.25	3	L
DB0805A2325AWTR	2325±50	0.25	3	T

*With Recommended Pad Layout

****LEAD FREE TERMINATION
PART NUMBERS:
DB0805AxxxxASTR**



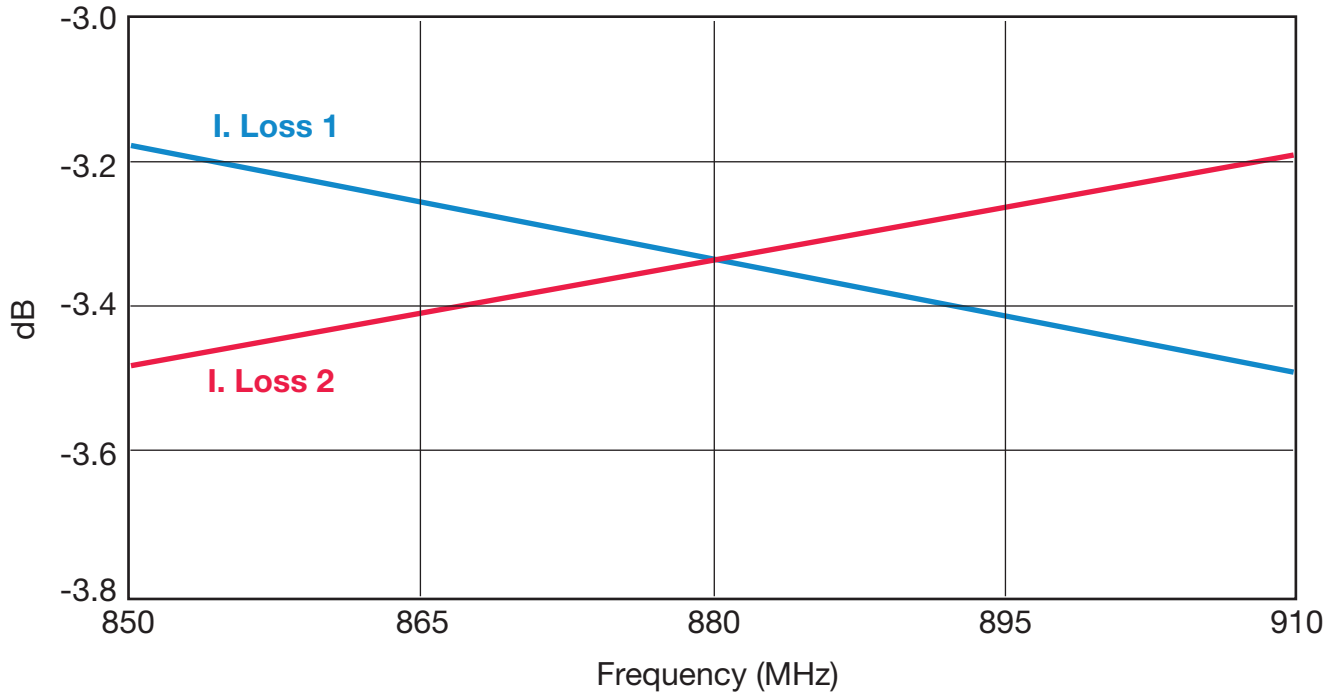
Important: All intermediate frequencies within the indicated range are readily available.

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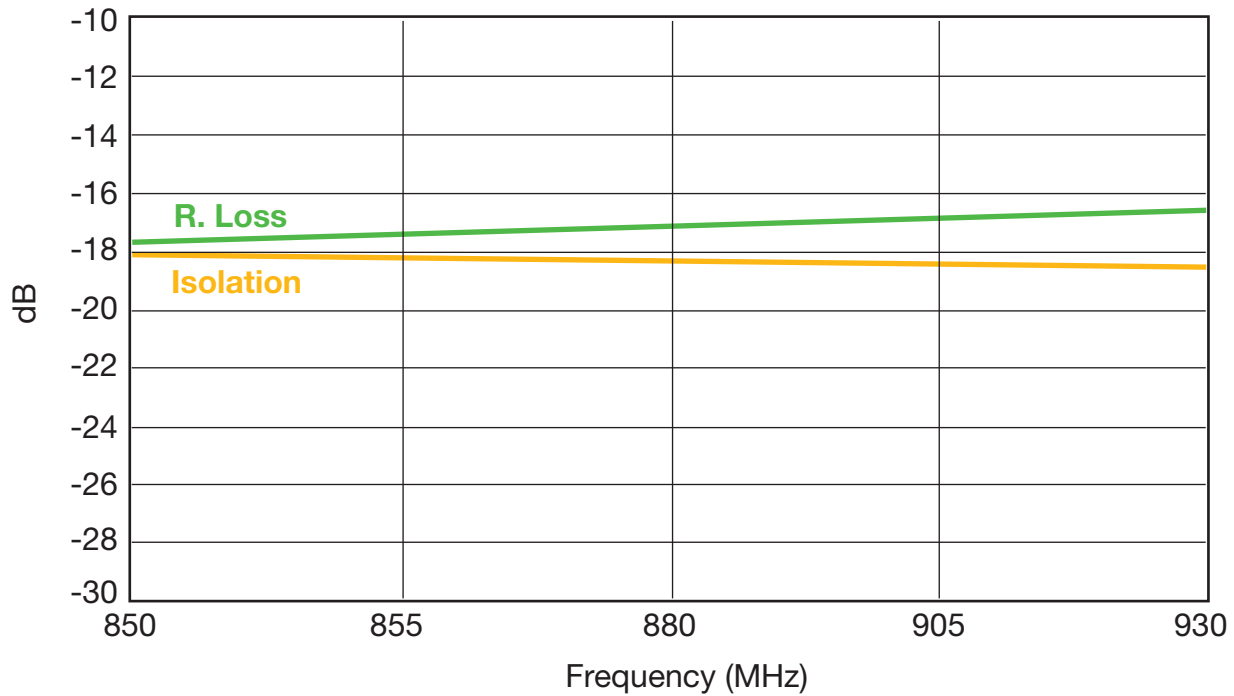
DB0805 3dB 90° Couplers



880 ± 30MHz DB0805A0880AWTR



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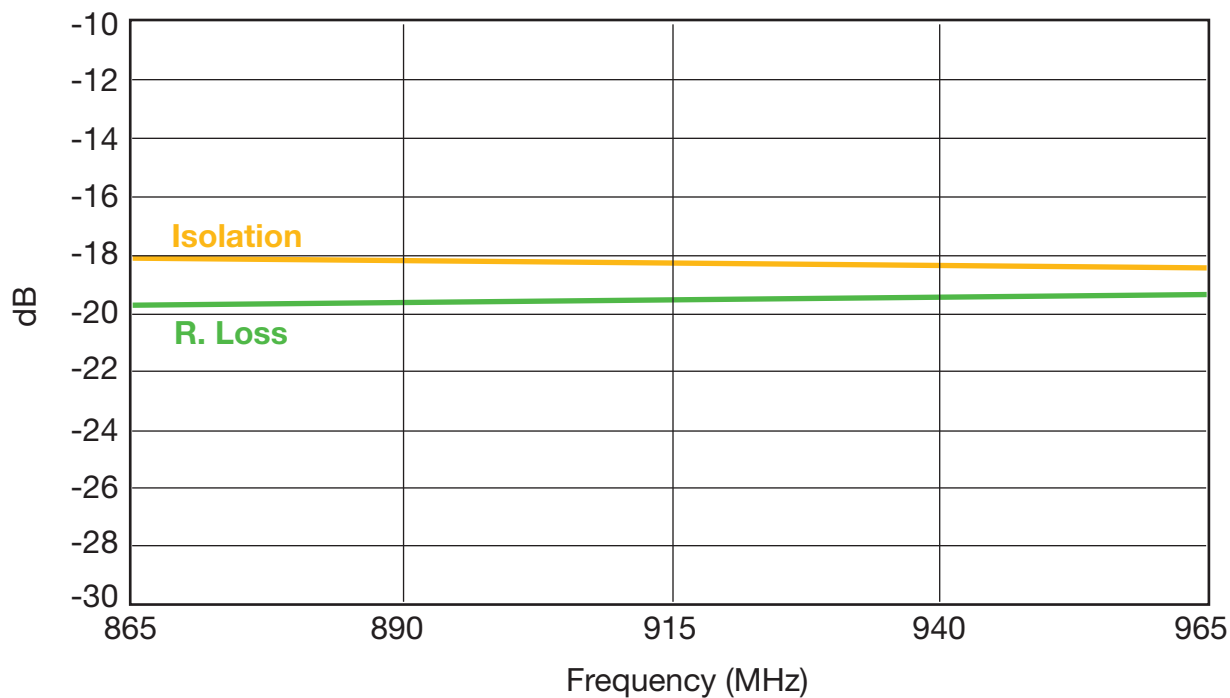
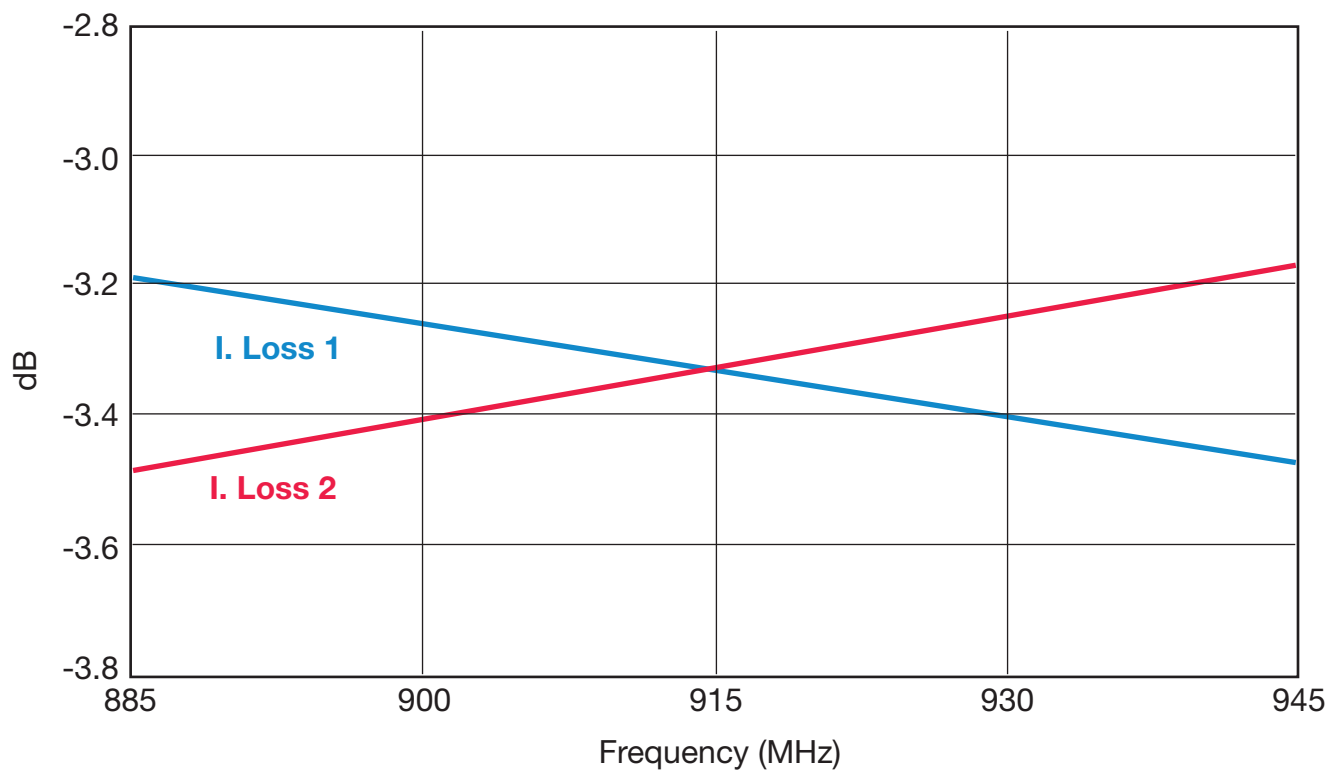


Thin-Film Directional Couplers

DB0805 3dB 90° Couplers



915 ± 30MHz DB0805A0915AWTR



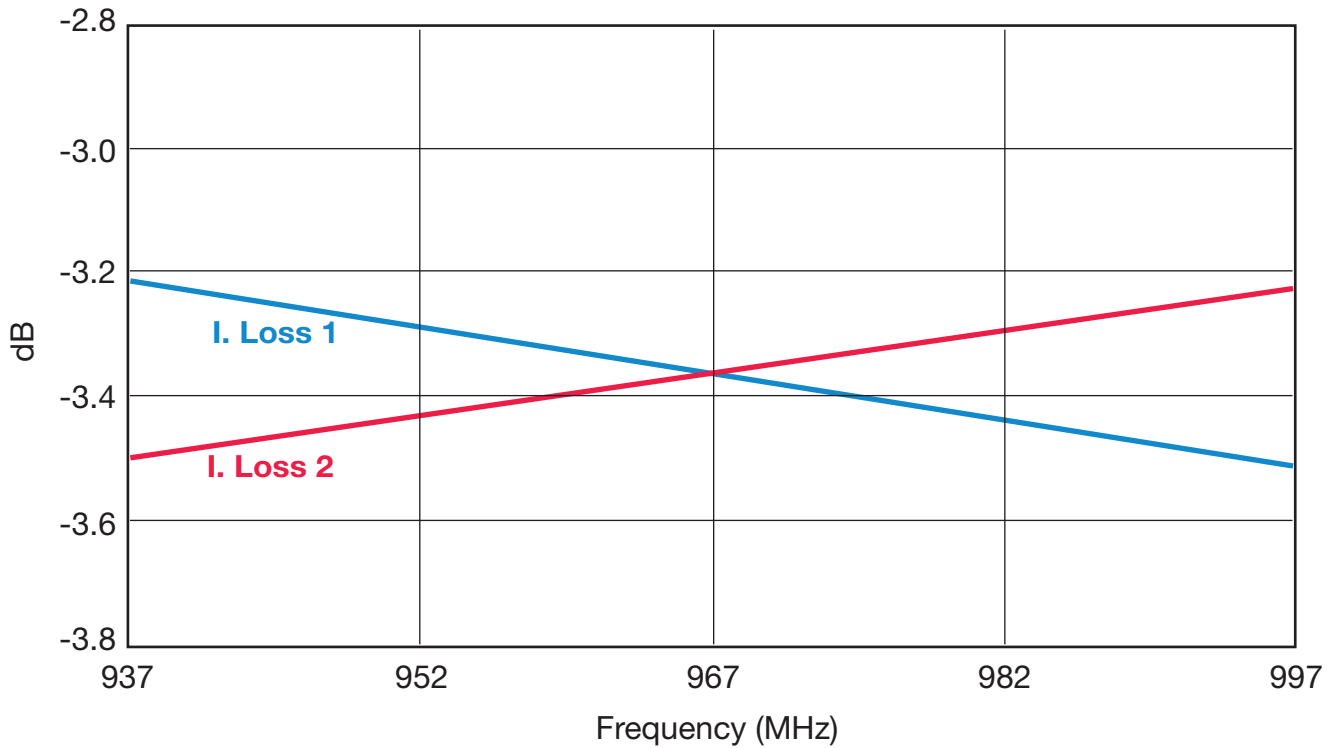
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Thin-Film Directional Couplers

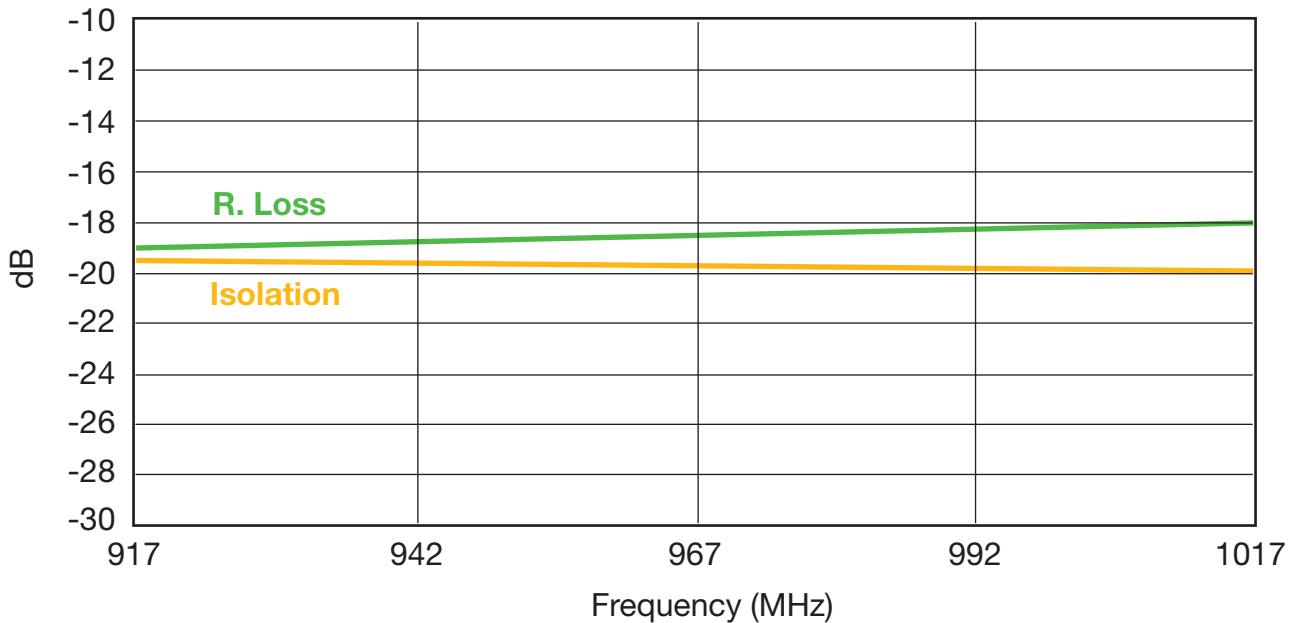
DB0805 3dB 90° Couplers



967± 30MHz DB0805A0967AWTR



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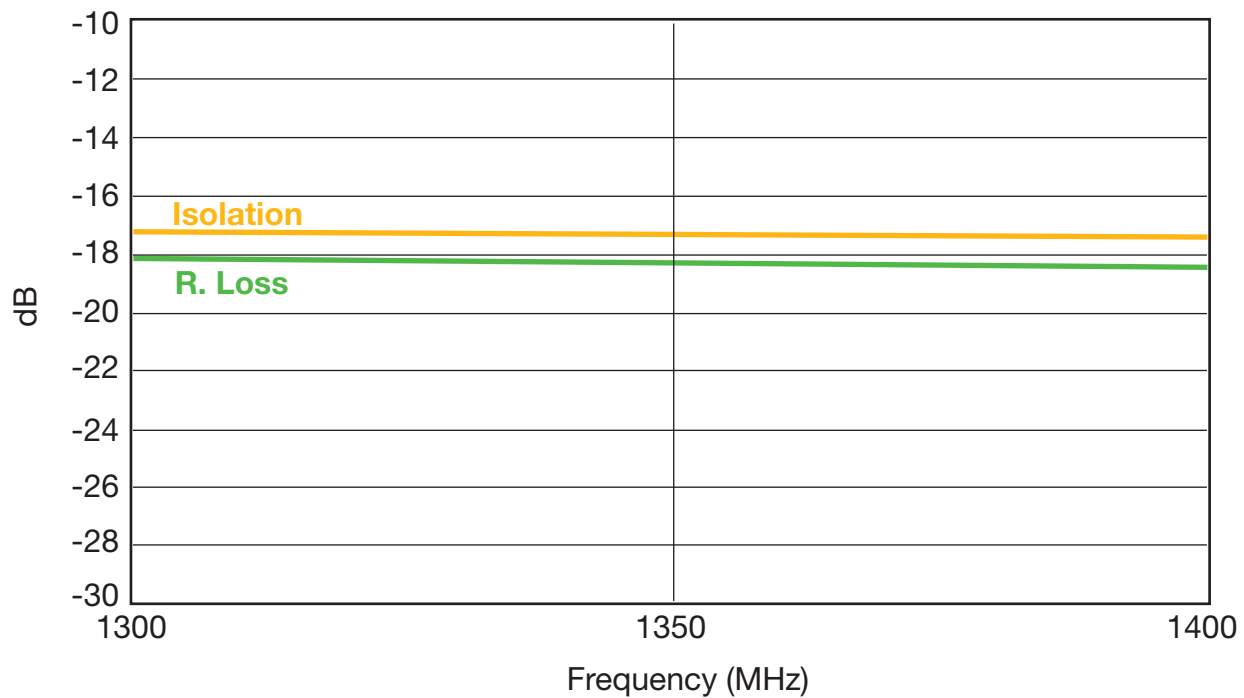
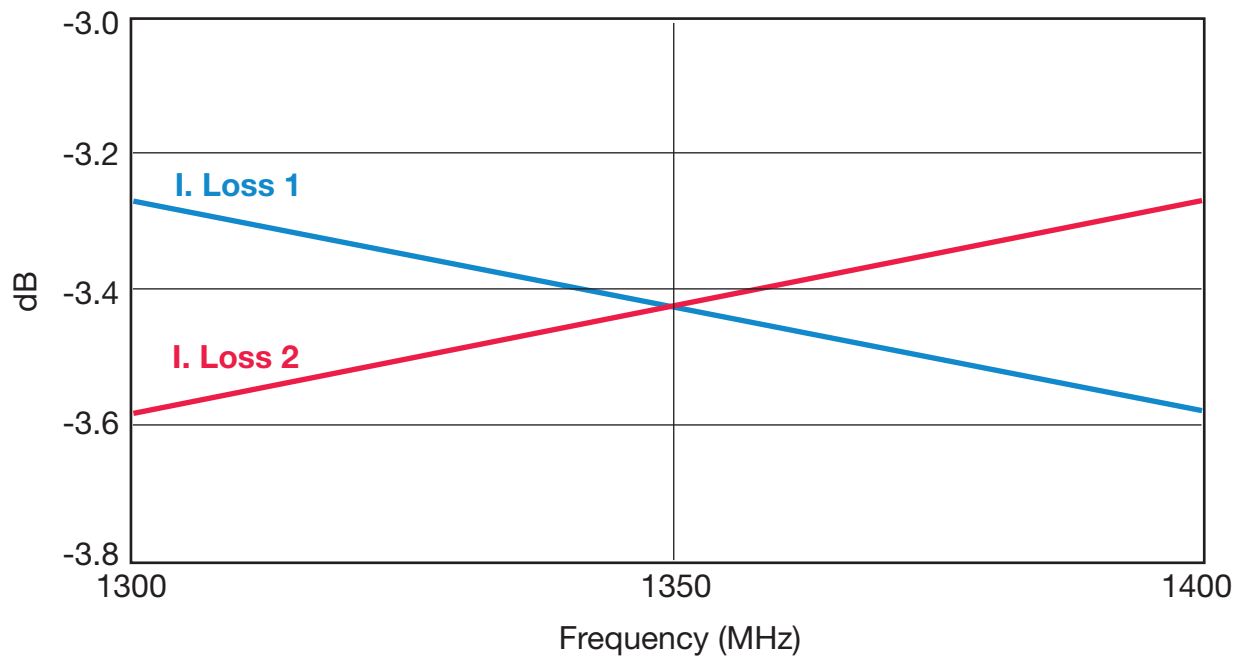


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1350 ± 50MHz DB0805A1350AWTR



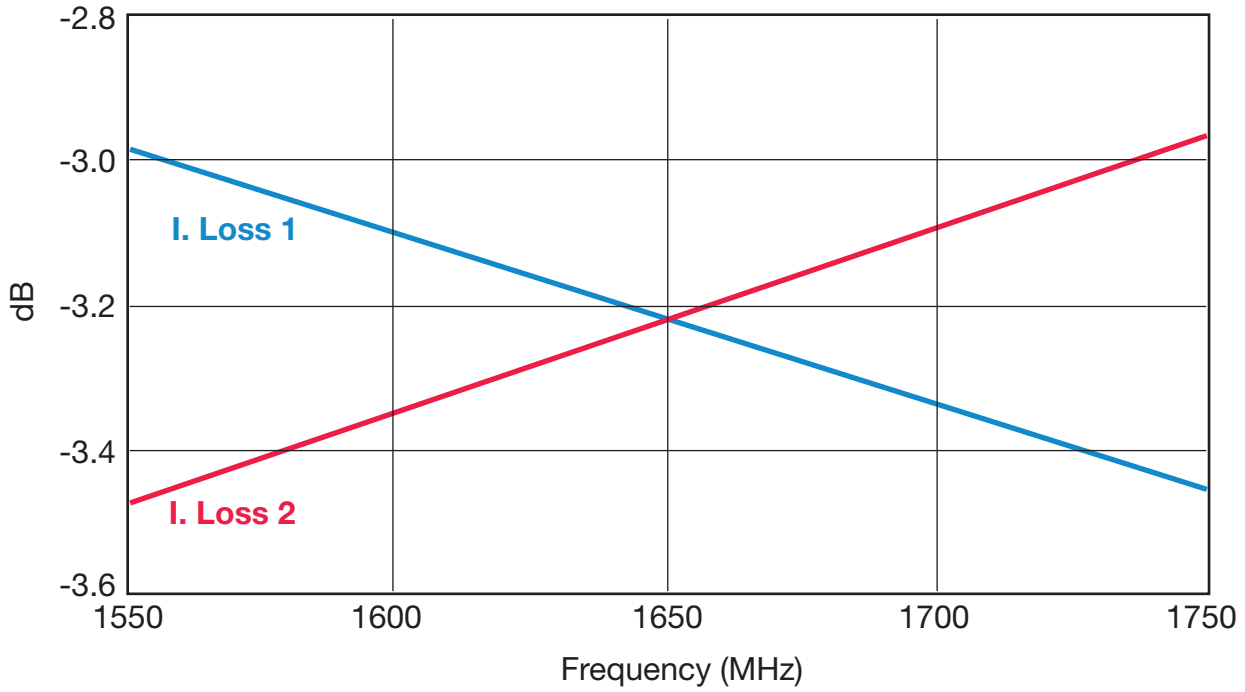
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Thin-Film Directional Couplers

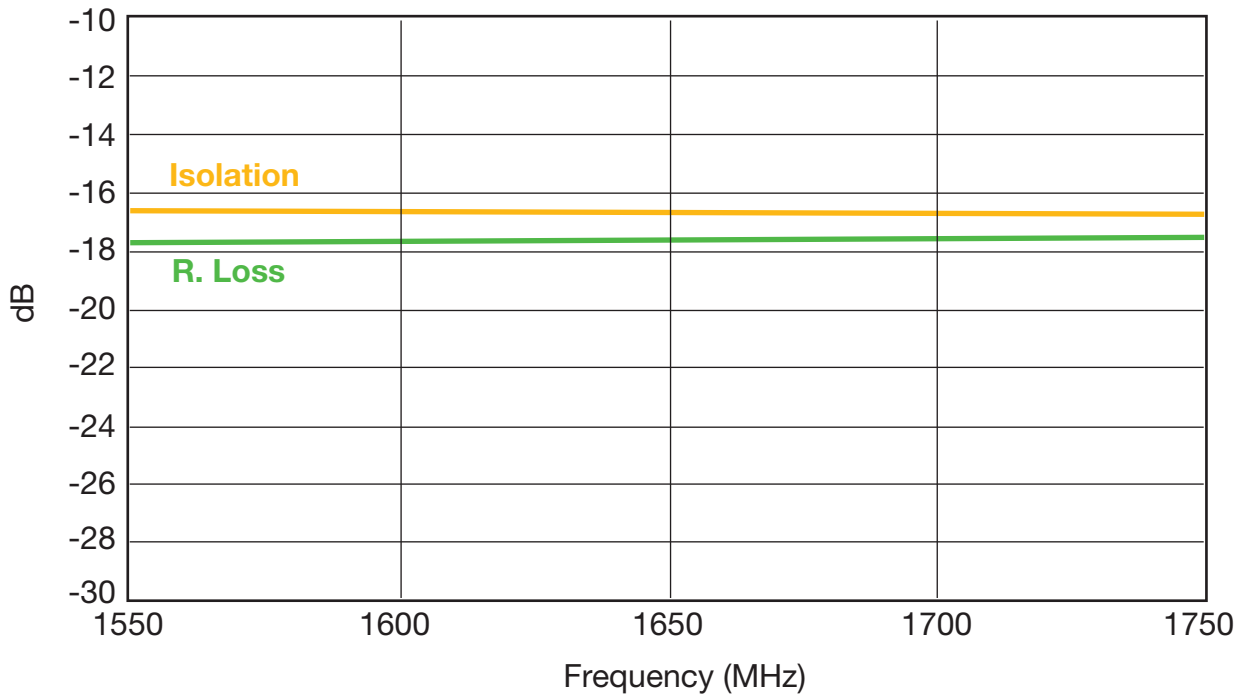
DB0805 3dB 90° Couplers



1650 ± 50MHz DB0805A1650AWTR



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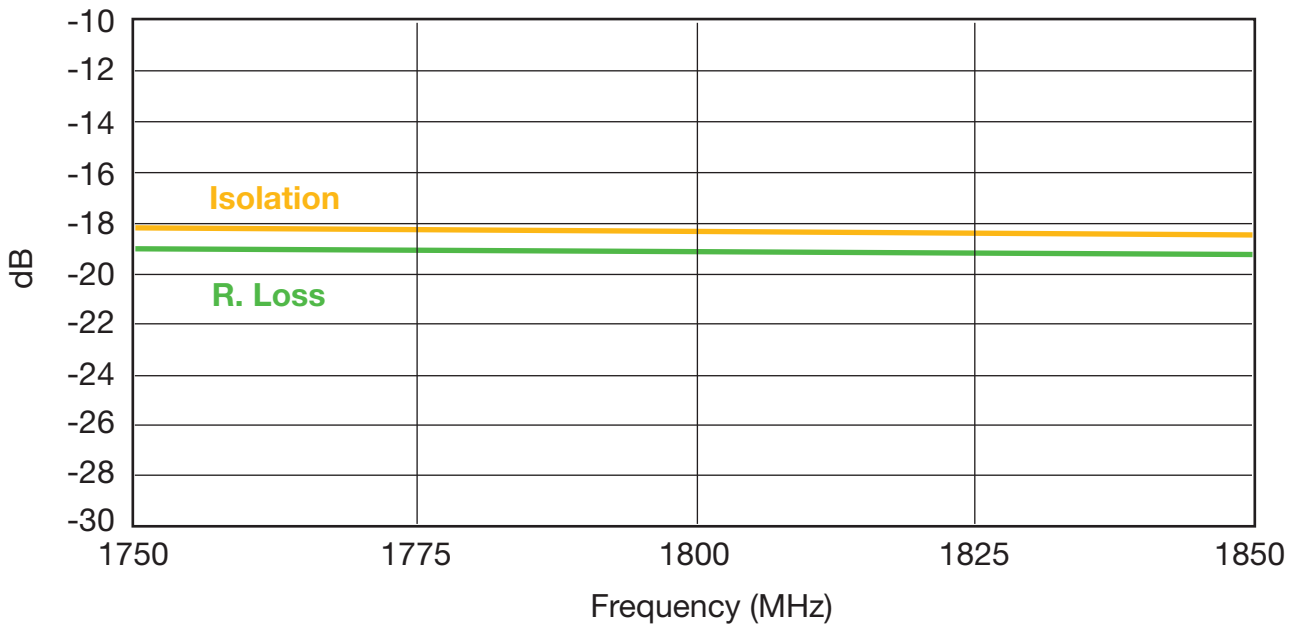
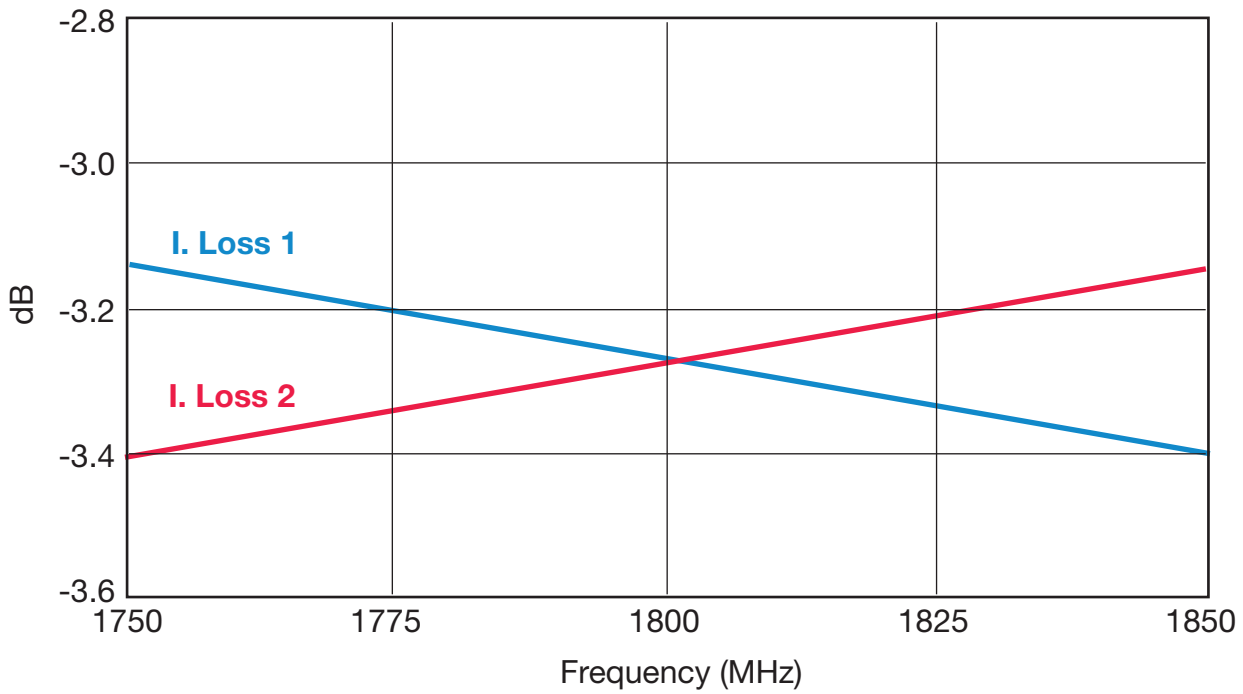
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DB0805 3dB 90° Couplers



1800 ± 50MHz DB0805A1800AWTR

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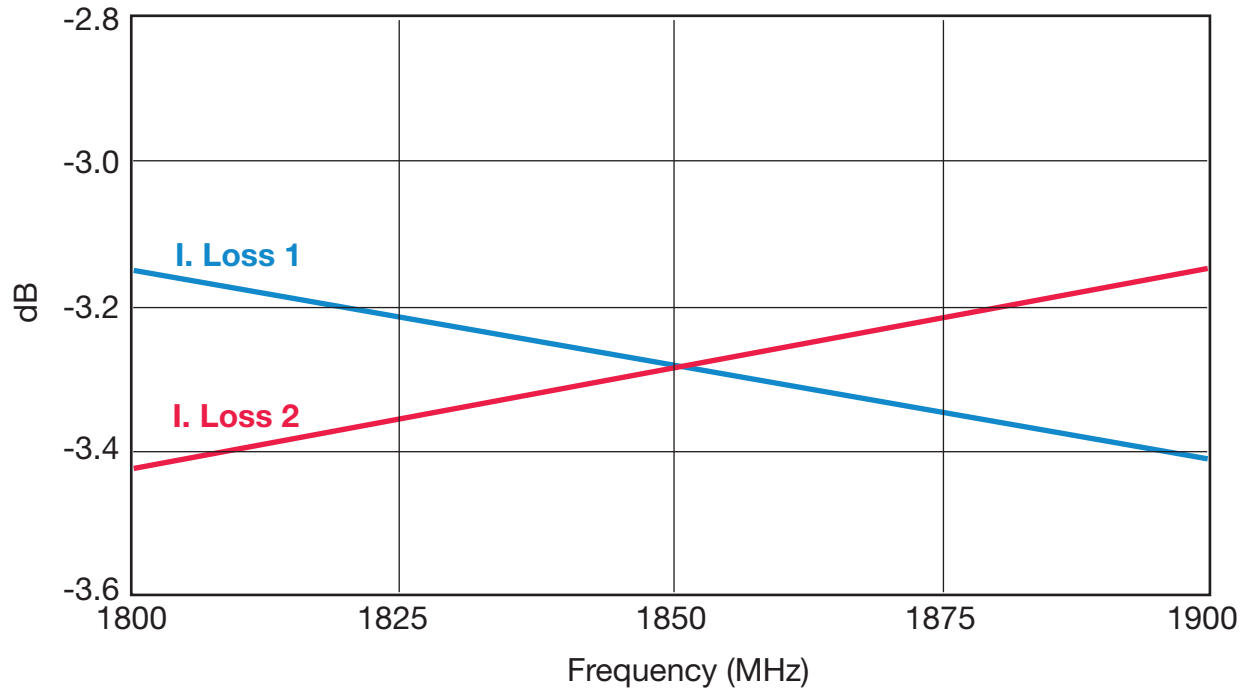


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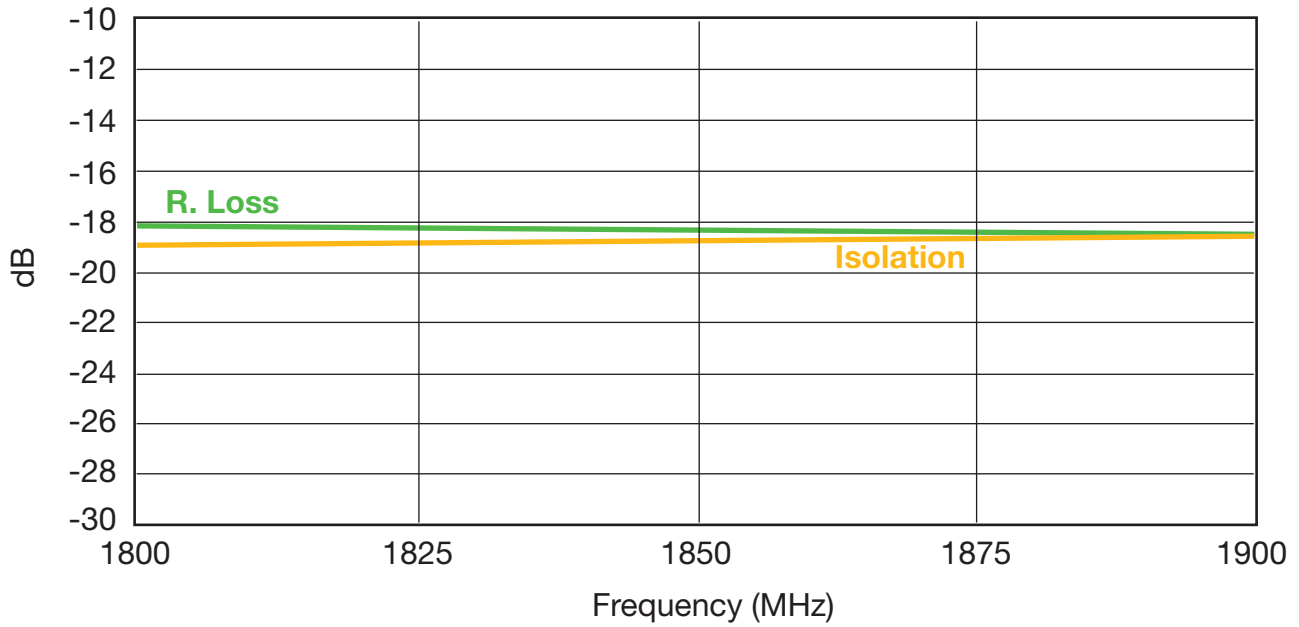
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1850 ± 50MHz DB0805A1850AWTR



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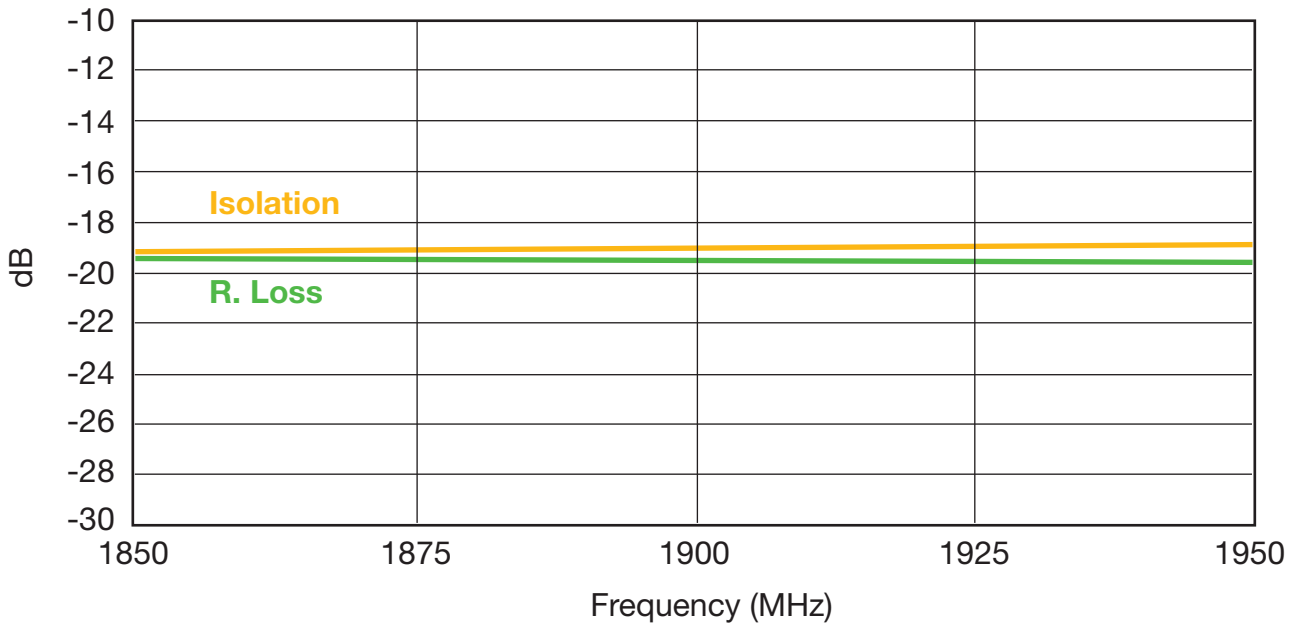
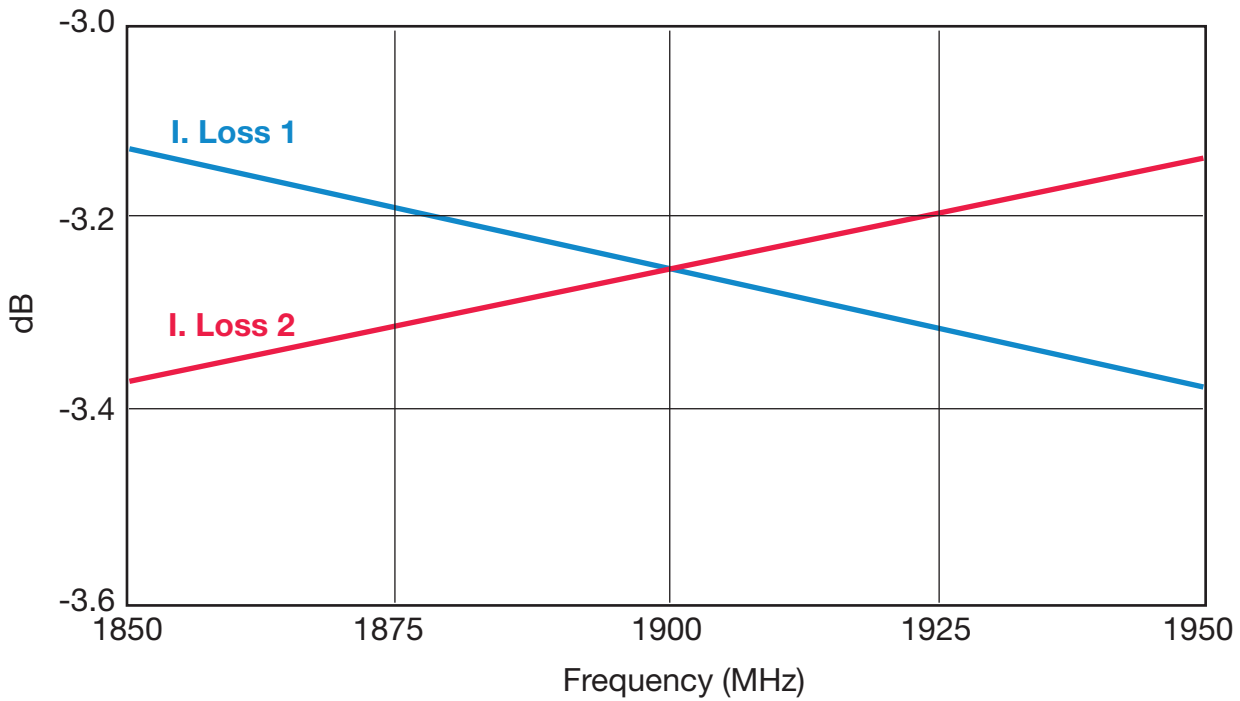


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DB0805 3dB 90° Couplers



1900 ± 50MHz DB0805A1900AWTR



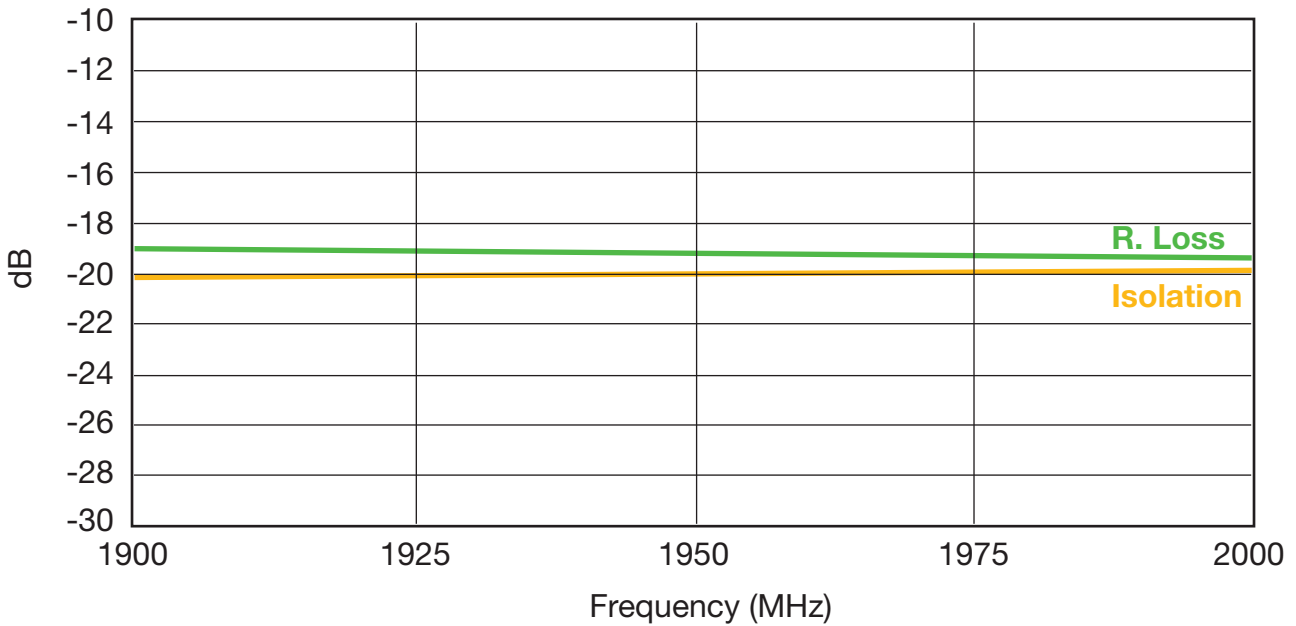
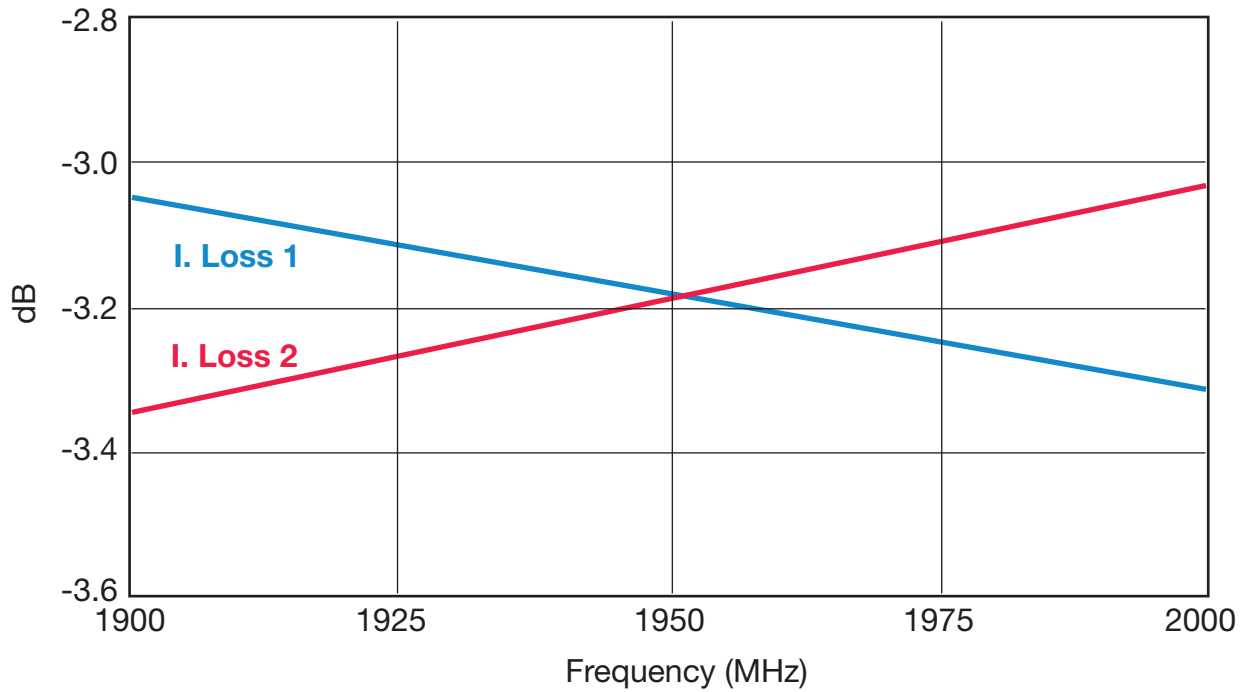
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Thin-Film Directional Couplers

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1950 ± 50MHz DB0805A1950AWTR



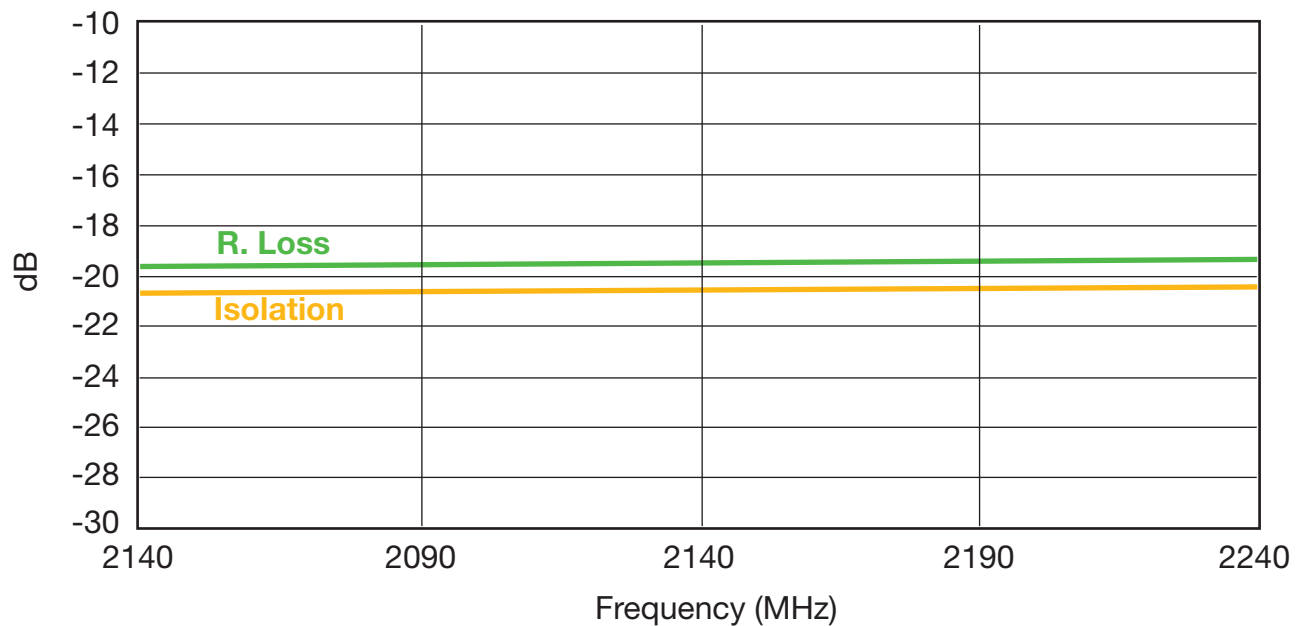
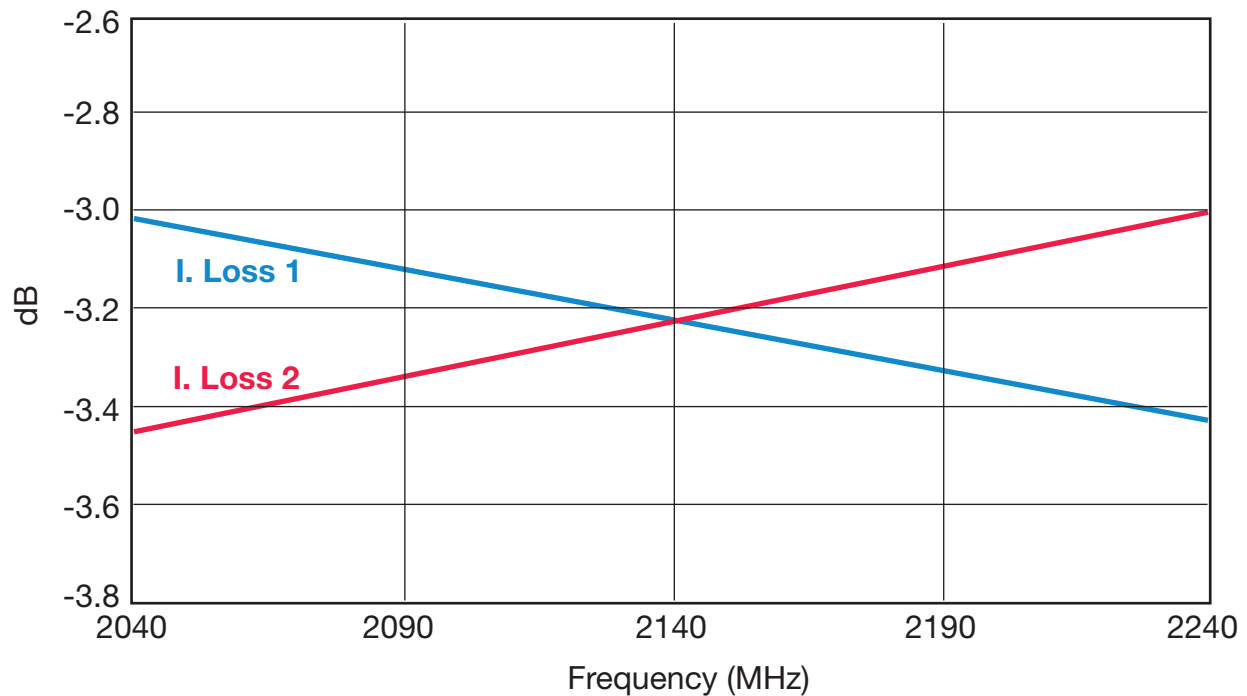
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2140 ± 50MHz DB0805A2140AWTR



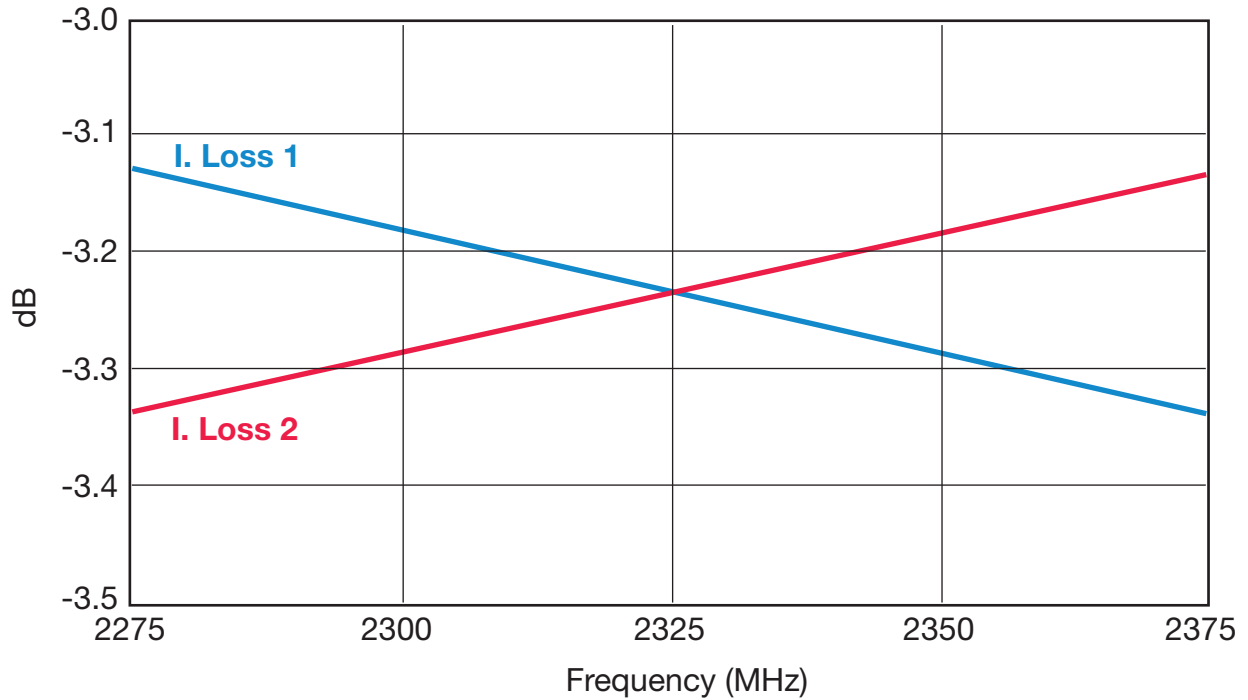
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2325 ± 50MHz DB0805A2325AWTR



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