A KYOCERA GROUP COMPAN

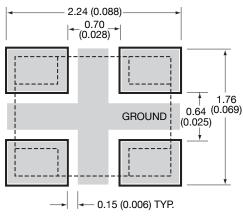
GENERAL DESCRIPTION ITF TECHNOLOGY

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.

RECOMMENDED PAD LAYOUT DIMENSIONS:

millimeters (inches)



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	С
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	К
DB0805A1900ASTR	1900±50	0.30	3	К
DB0805A1950ASTR	1950±50	0.25	3	К
DB0805A2140ASTR	2140±50	0.25	3	L
DB0805A2325ASTR	2325±50	0.25	3	Т

*With Recommended Pad Layout

NOTE: Additional Frequencies Available Upon Request

APPLICATIONS

DIMENSIONS:

L

w

т

Α

в

millimeters (inches)

 Balanced Amplifiers and Signal Distribution in Mobile Communications

2.03±0.10

(0.080±0.004)

1.55±0.10

(0.061±0.004) 0.98±0.15

(0.037±0.006) 0.56±0.25

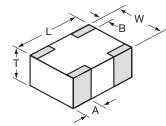
(0.022±0.010) 0.35±0.15

(0.014±0.006)

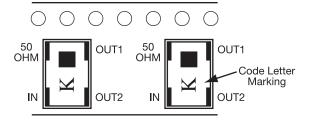
FEATURES

- 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

BOTTOM VIEW







**LEAD FREE TERMINATION PART NUMBERS: DB0805AXXXXASTR



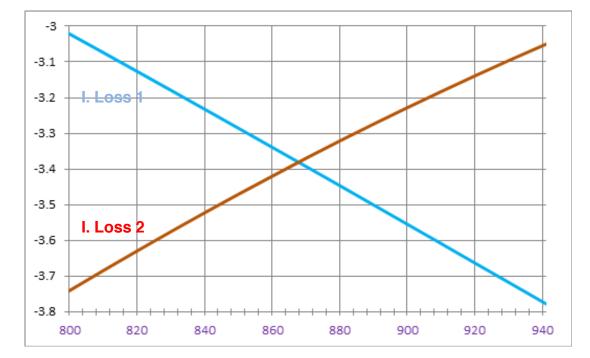


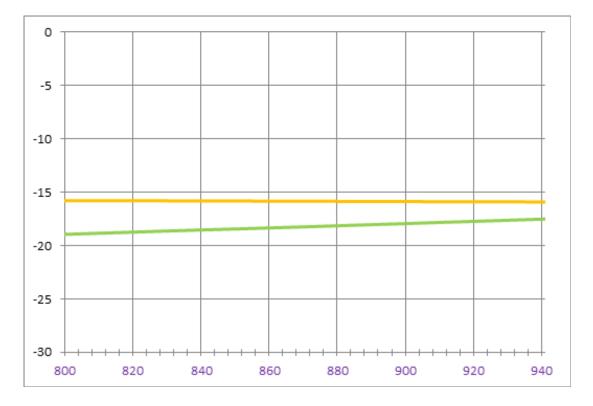


063021



870 ± 13MHZ DB0805A0870ASTR

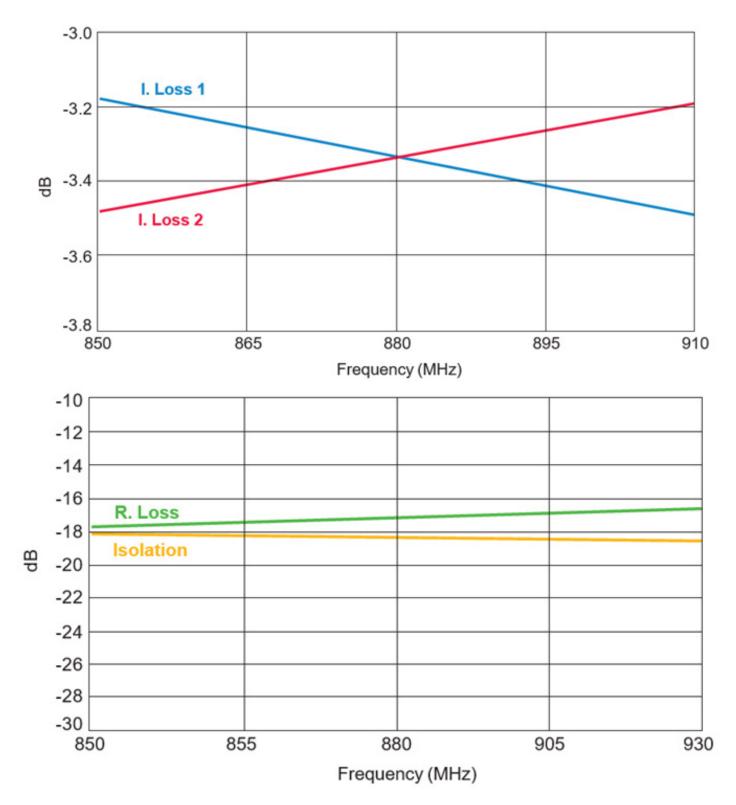








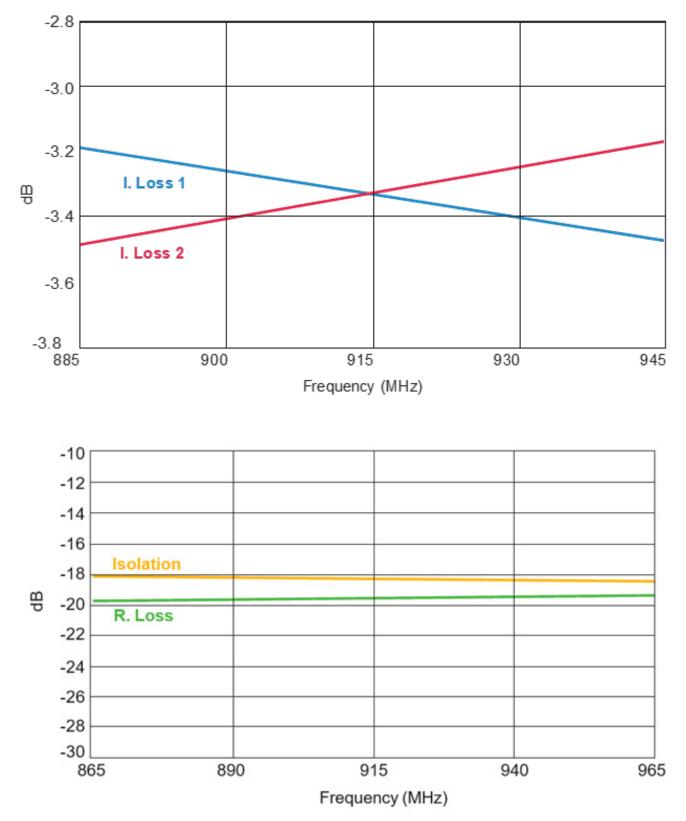
880 ± 30MHZ DB0805A0880ASTR





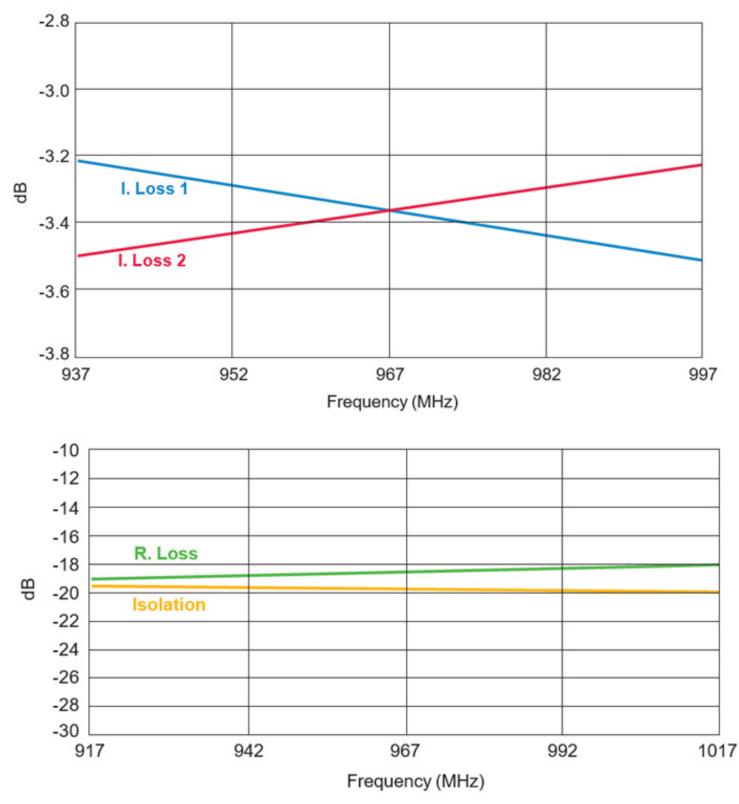


915 ± 30MHZ DB0805A0915ASTR





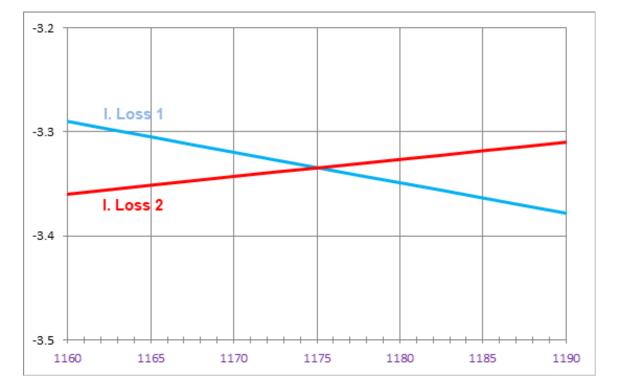
967± 30MHZ DB0805A0967ASTR







11760 ± 13MHZ DB0805A176ASTR (L1 BAND)

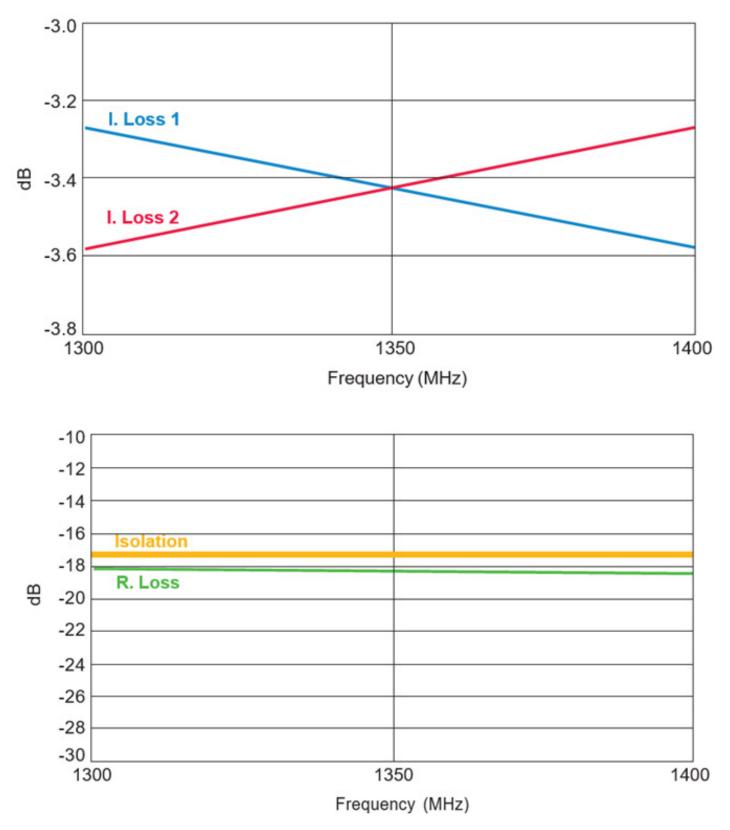








1350 ± 50MHZ DB0805A1350ASTR

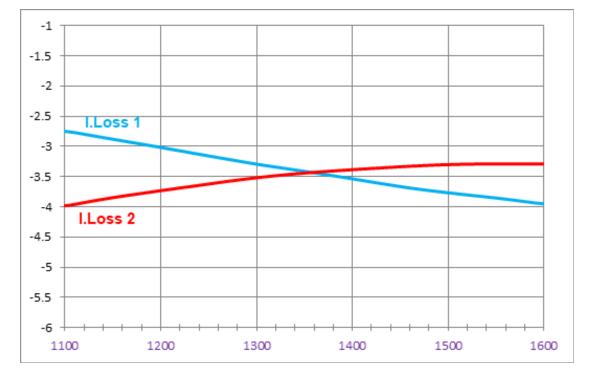


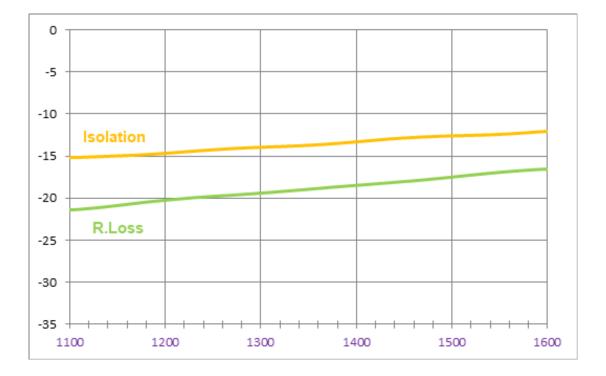


The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or



1376 ± 210 MHZ DB0805A1376ASTR (L5 BAND)

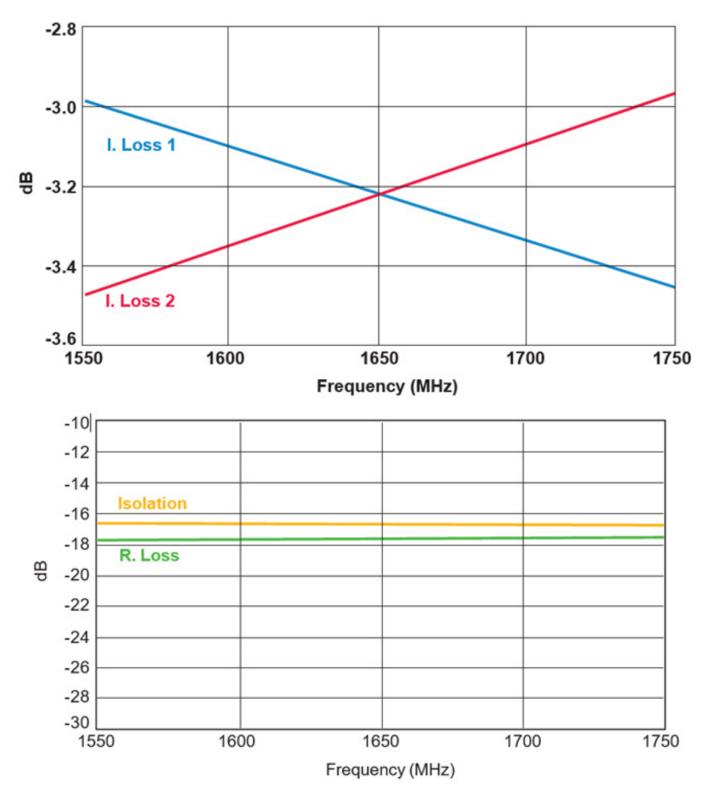








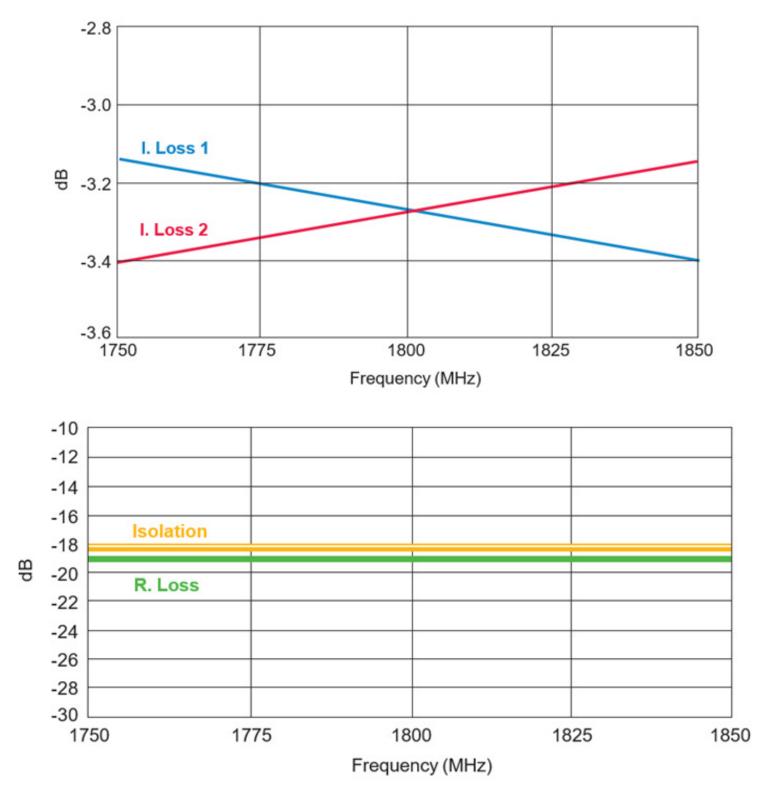
1650 ± 50MHZ DB0805A1650ASTR





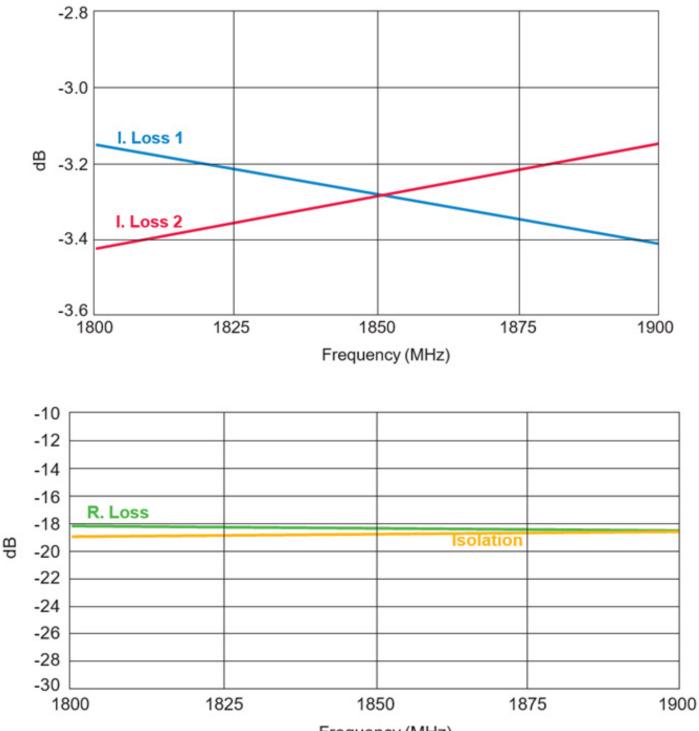


1800 ± 50MHZ DB0805A1800ASTR





1850 ± 50MHZ DB0805A1850ASTR

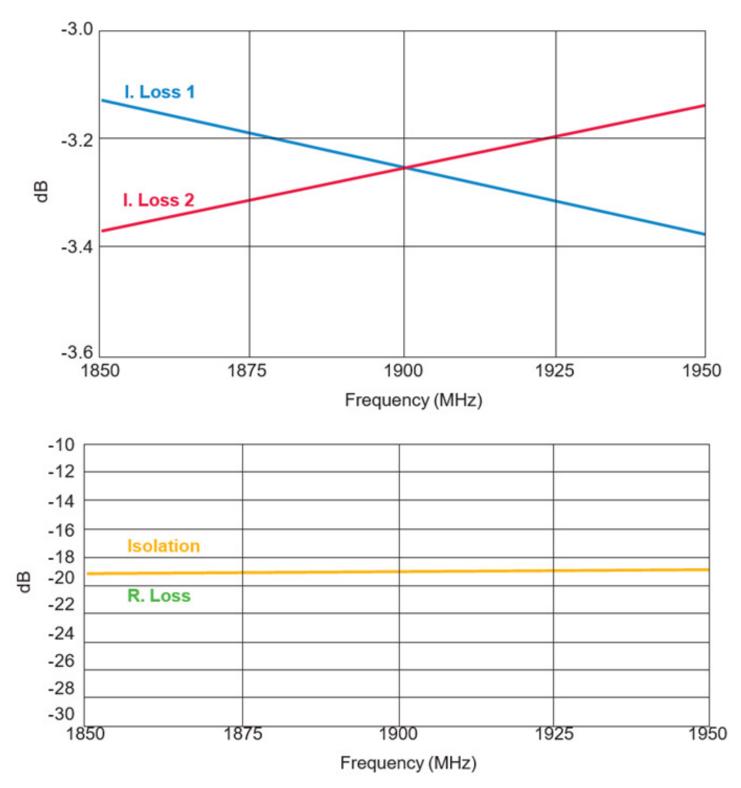


Frequency (MHz)





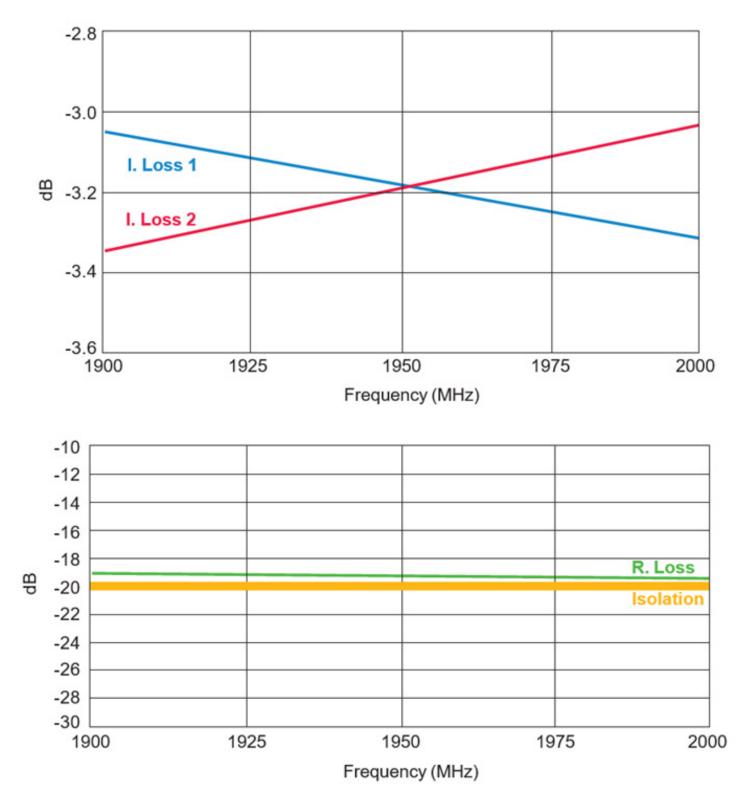
1900 ± 50MHZ DB0805A1900ASTR



110



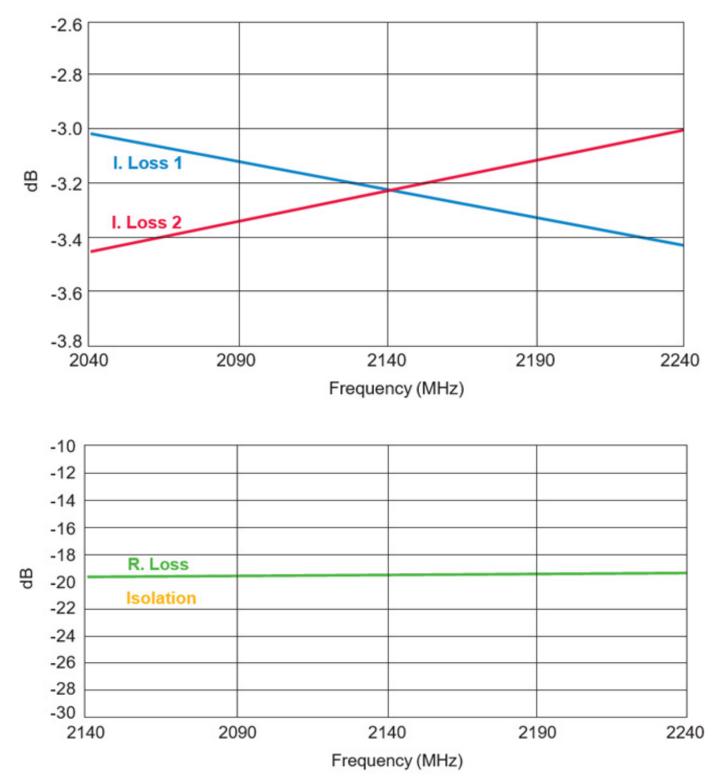
1950 ± 50MHZ DB0805A1950ASTR





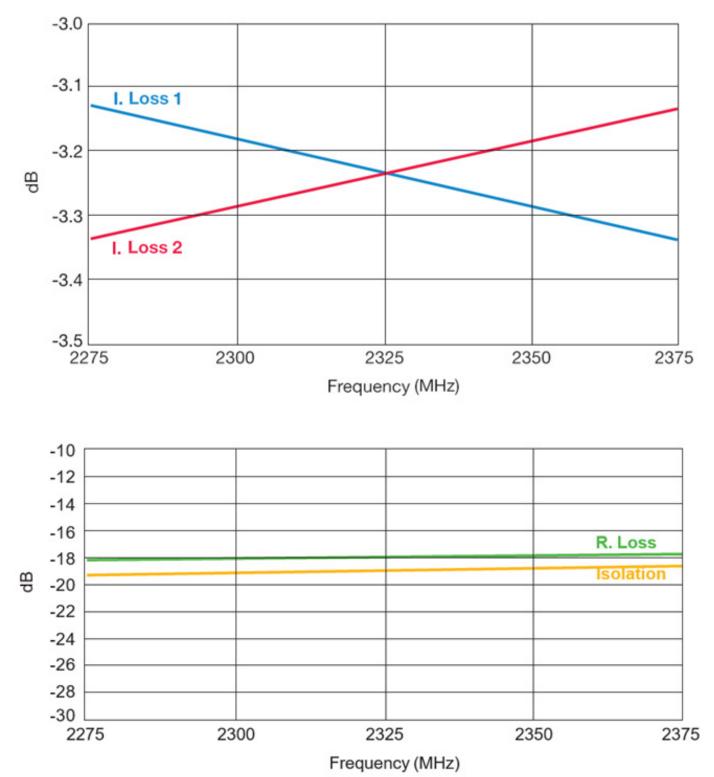


2140 ± 50MHZ DB0805A2140ASTR





2325 ± 50MHZ DB0805A2325ASTR







GENERAL DESCRIPTION

These jigs are designed for testing the DB0805 3dB 90° Couplers using a Vector Network Analyzer.

They consist of a dielectric substrate, having 50Ω microstrips as conducting lines and a bottom ground plane located at a distance of 0.254mm from the microstrips.

The substrate used is Neltec's NH9338ST0254C1BC.

The connectors are SMA type (female), 'Johnson Components Inc.' Product

non-metallic stick until all four ports touch the appropriate pads.

Set the VNA to the relevant frequency band. Connect the VNA using a 10dB attenuator on the jig terminal connected to port 2. Follow the VNA's instruction manual and use the calibration jwwig to perform a full 2-port calibration in the required bandwidths.

P/N: 142-0701-841.

Both a measurement jig and a calibration jig are provided.

The calibration jig is designed for a full 2-port calibration, and consists of an open line, short line and through line. LOAD calibration can be done by a 50Ω SMA termination.

MEASUREMENT PROCEDURE

When measuring a component, it can be either soldered or pressed using a

Place the coupler on the measurement ji	ig as follows:
Input (Coupler) Connector 1 (Jig)	Output 1 (Coupler) Connector 3 (Jig)
50Ω (Coupler) 🖡 Connector 2 (Jig)	Output 2 (Coupler) Connector 4 (Jig)

To measure R. Loss and I. Loss 1 connect:

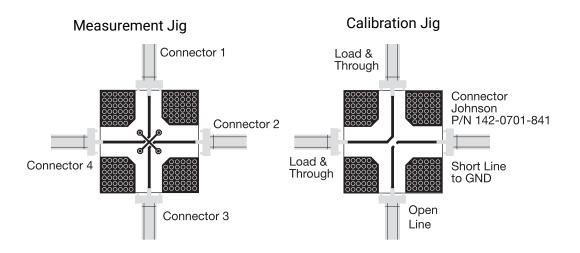
Connector 1 (Jig) 🖡 Port 1 (VNA)	Connector 3 (Jig) Fort 2 (VNA)
Connector 2 (Jig) 🖡 50Ω	Connector 4 (Jig) 🕨 50Ω

To measure R. Loss and I. Loss 2 connect:

Connector 1 (Jig) 🖡	Port 1 (VNA)	Connector 3 (Jig) 🖡	50Ω
Connector 2 (Jig) 🖡	50Ω	Connector 4 (Jig) 🖡	Port 2 (VNA)

To measure Isolation connect:

Connector 1 (Jig) ♦ 50Ω	Connector 3 (Jig) Port 1 (VNA)
Connector 2 (Jig) 🖡 50Ω	Connector 4 (Jig) 🕨 Port 2 (VNA)



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