

3dB TEMLINE™ Hybrid Couplers Series

High Power, Octave Band, Quadrature Designs



Features

- Average Power Rating 1,000 Watts, Normalized at 1 GHz
- 1 dB Maximum Unbalance²
- Meet MIL-E-5400 Class 3 or Equivalent
- Screenable to MIL-P-23971 or Equivalent
- TYPE "N" Connectors

The 3dB TEMLINE Hybrid Couplers have proven performance with over five decades of quality and reliability under Sage Laboratories, now a legacy product supported by API Technologies. These couplers are available as standard parts or can be customized with a variety of options including customized frequency bands & optimization, mounting schemes, screening and testing upgrades.

Technical Specifications

Model Number	Frequency Range (MHz)	Isolation Min (dB)	VSWR Max	Insertion Loss, Max ¹ (dB)
749	125 – 250	23	1.20	0.1
750	250 – 500	20	1.20	0.1
751	500 – 1000	20	1.25	0.1
752	1000 – 2000	20	1.25	0.1
753	2000 – 4000	20	1.25	0.1

NOTES:

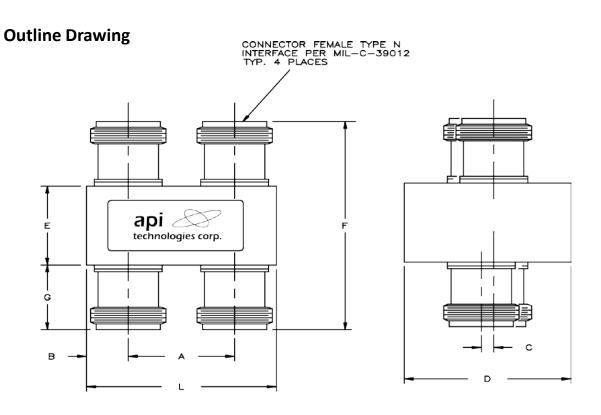
- Maximum loss is the actual dissipative loss and reflective loss due to VSWR. It does not include coupling loss.
- 2. Unbalance is measured as the difference between the coupled and mainline output ports from the mean coupling at each frequency.



+1.888.553.7531

Mechanical Specifications

Model Number	Dimensions (See Drawing on Page 2)			Weights		
	Α"	A (cm)	L"	L (cm)	Ounces	Grams
749	11.00	(27.94)	11.68	(29.67)	19	538
750	5.63	(14.30)	6.31	(16.03)	13	368
751	2.78	(7.06)	3.47	(8.81)	7	198
752	1.40	(3.56)	2.09	(5.31)	5	142
753	.82	(2.08)	1.50	(3.58)	4	113



NOTES:

B dimension for all models is .34"

C dimension for all models is .10"

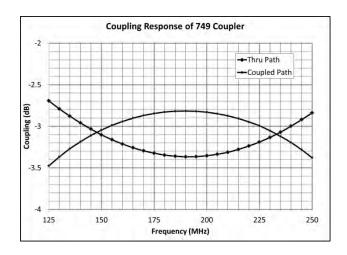
D dimension for all models is 1.38"

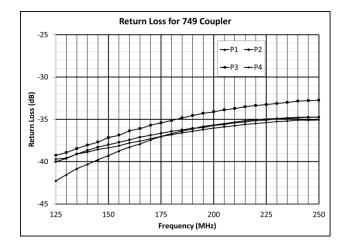
E dimension for all models is .87"

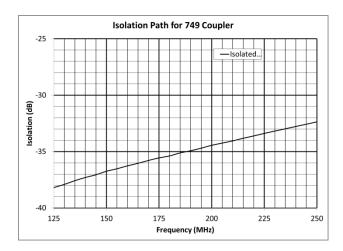
F dimension for all models is 2.31"

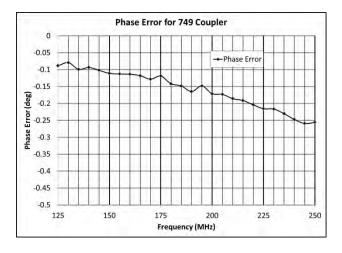
G dimension for all models is .71"

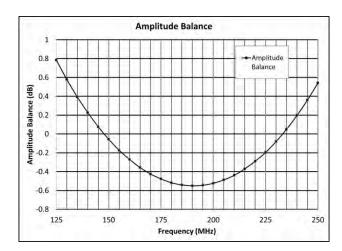
749 Series - Performance Graphs



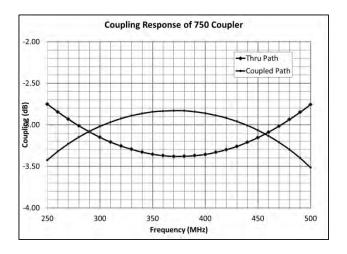


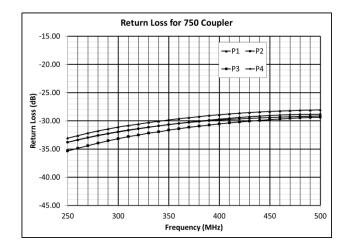


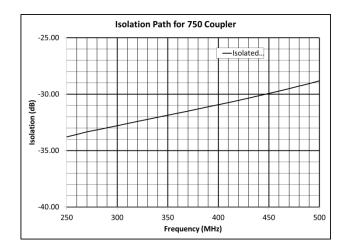


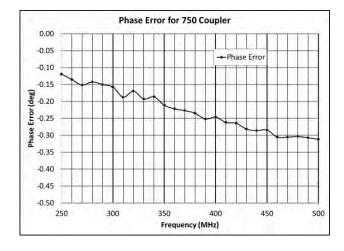


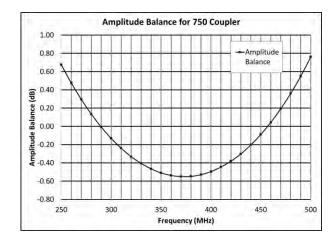
750 Series - Performance Graphs



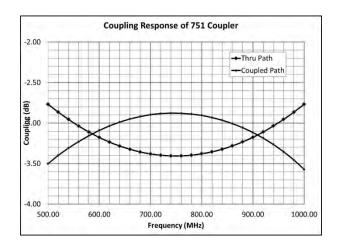


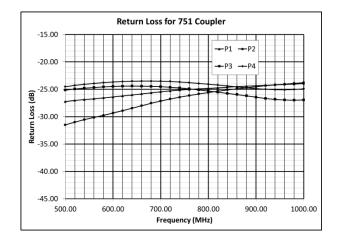


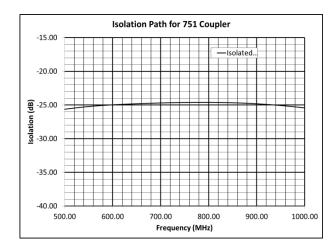


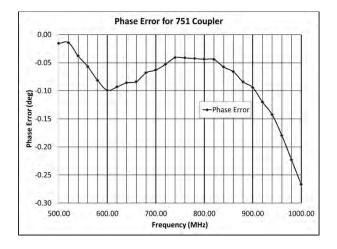


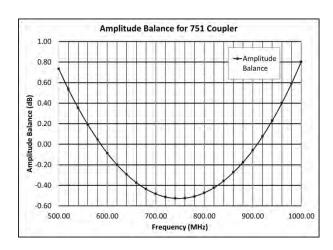
751 Series - Performance Graphs



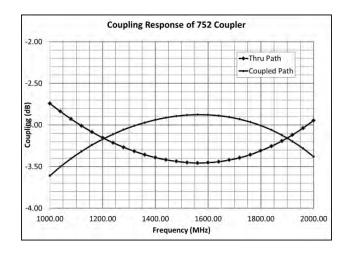


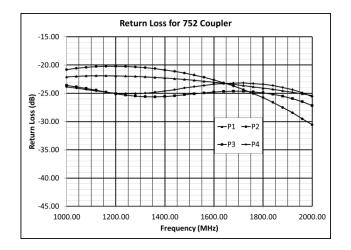


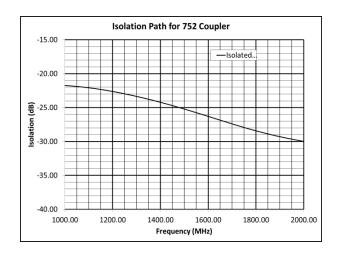


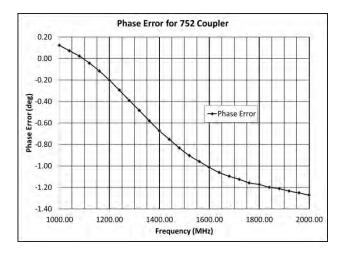


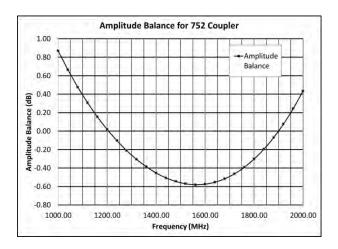
752 Series - Performance Graphs



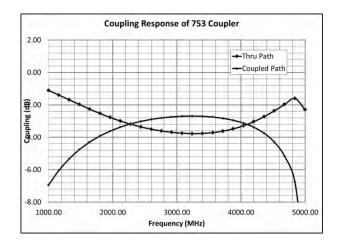


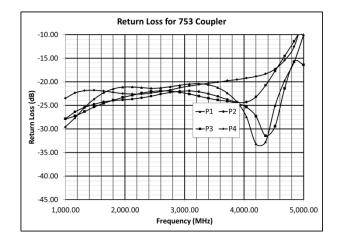


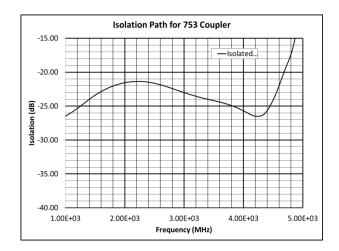


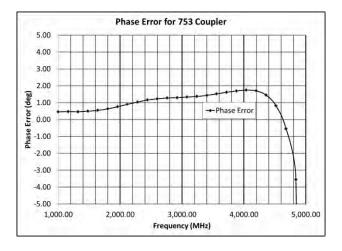


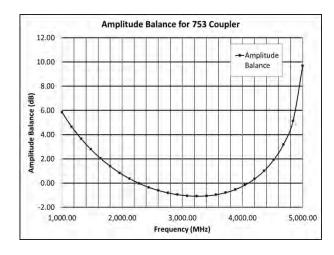
753 Series - Performance Graphs











NOTES:

- API Technologies "Standard Warranty and Order Terms and Conditions" apply to all orders.
- All specifications subject to change without notice.
- Contact our local Manufacturers Representative for pricing.

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