

Agilent Hybrid Power Dividers

87302C	0.5 to 26.5 GHz
87303C	1 to 26.5 GHz
87304C	2 to 26.5 GHz

Data Sheet

- High isolation
- Broadband to 26.5 GHz
- Low insertion loss
- Accurate amplitude and phase tracking

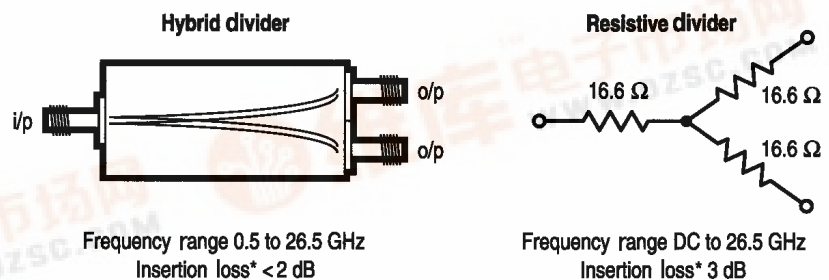


Features and Description

The Agilent 87302C, 87303C, and 87304C power dividers are compact, hybrid microwave power dividers designed for power-splitting applications that require a minimal insertion loss and high isolation. The 87302C covers the entire 0.5 to 26.5 GHz frequency range with a maximum insertion loss of 1.9 dB. The 87303C and 87304C restrict the lower frequency limit for further improvement in the insertion loss. The 87303C covers 1 to 26.5 GHz with a maximum insertion loss of 1.6 dB and the 87304C operates from 2 to 26.5 GHz with a worst-case insertion loss of 1.4 dB. Maximum insertion loss of the 87302C, 87303C, and 87304C is in addition to 3 dB coupling loss. All units use industry standard 3.5 mm (SMA compatible) connectors for rugged trouble-free operation.

Applications

These hybrid power dividers are excellent for any application where two-way power division with high isolation and low insertion loss is required. They typically exhibit an insertion loss that is 1 to 2 dB lower than an equivalent resistive power divider (see Figure 1).



* Plus 3 dB Power division loss

Figure 1. Hybrid power divider.



Agilent Technologies

Product Specifications

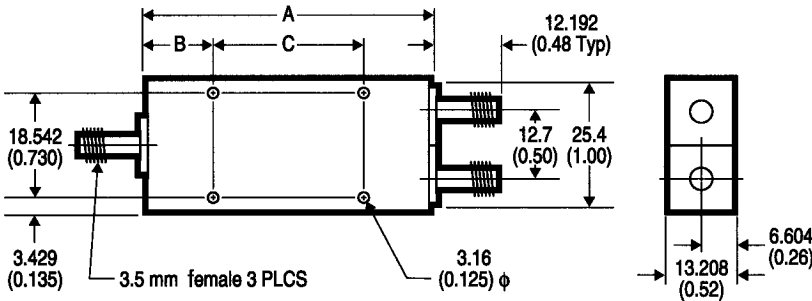
Frequency range	Model	Band segment	VSWR	Insertion ¹ loss (db)	Isolation (dB)	Amplitude tracking (dB)	Phase tracking (deg.)
0.5 to 26.5 GHz	87302C	0.5 to 18	1.45	1.5	19	0.3	6
		18 to 26.5	1.60	1.9	19	0.5	10
1.0 to 26.5 GHz	87303C	1.0 to 18	1.45	1.2	19	0.3	6
		18 to 26.5	1.60	1.6	21	0.5	10
2.0 to 26.5 GHz	87304C	2.0 to 18	1.45	1.1	19	0.3	6
		18 to 26.5	1.60	1.4	18	0.5	10

1. Insertion loss is in addition to 3 dB coupling loss

Power rating 10 W, CW (2:1 maximum load SWR)
Connectors 3.5 mm F, (SMA compatible)
Weight 170 g (6 oz) net, 340 g (12 oz) shipping

Note: Amplitude and phase tracking are the ratio of one output in dB or degrees, respectively.

Dimensions

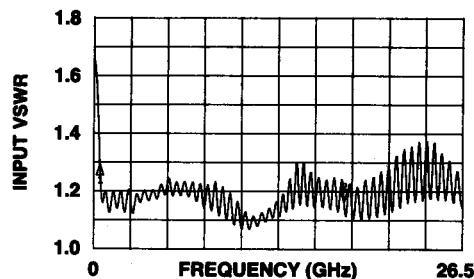


Dimensions are in millimeters and (inches).

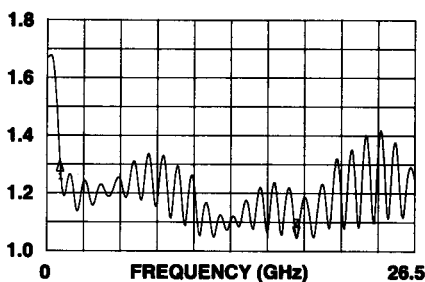
Model	Dimensions		
	A	B	C
87302C	196.85	28.702	139.7
	(7.75)	(1.13)	(5.50)
87303C	105.41	26.162	2.10
	(4.15)	(1.03)	(53.34)
87304C	57.15	28.702	0.00
	(2.25)	(1.13)	(0.00)

Technical Performance Curves

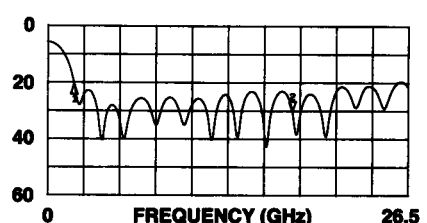
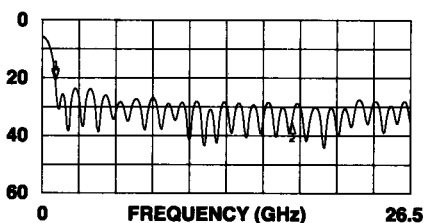
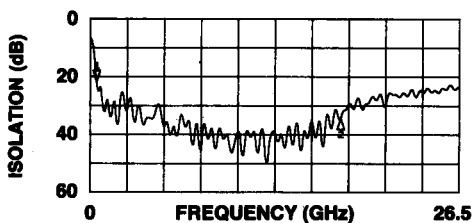
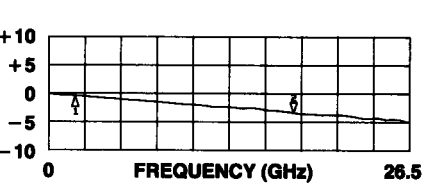
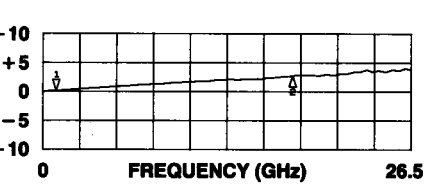
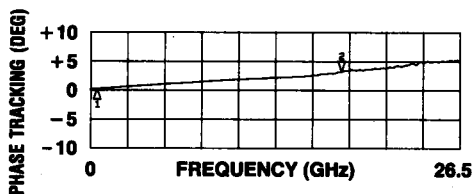
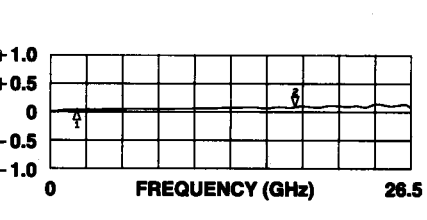
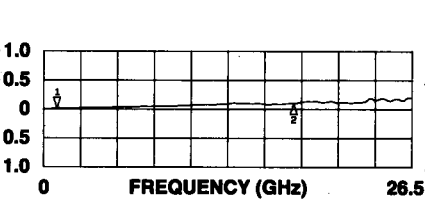
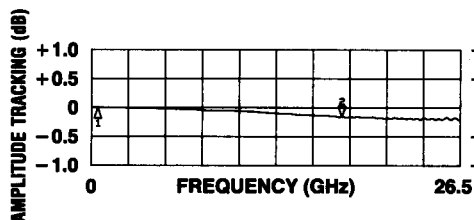
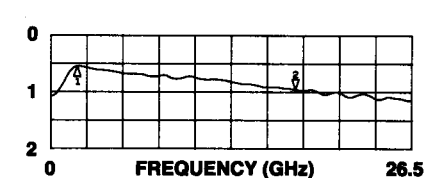
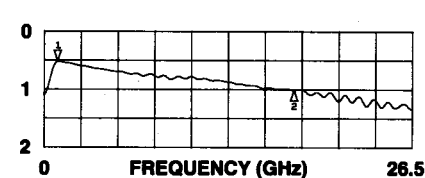
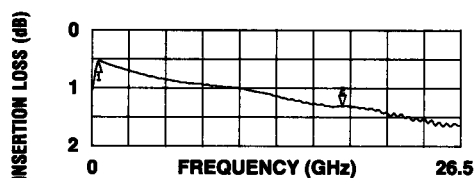
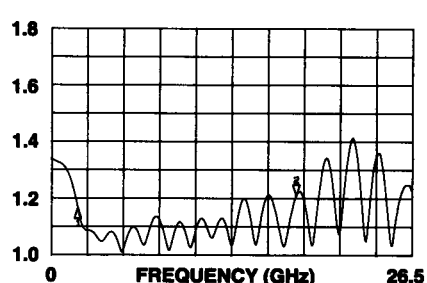
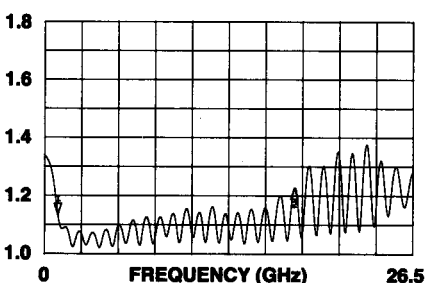
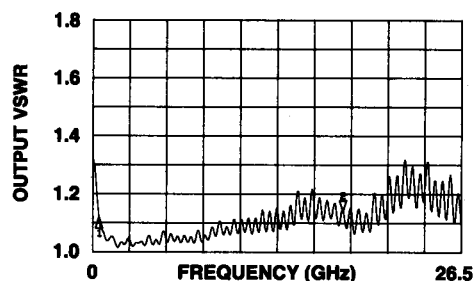
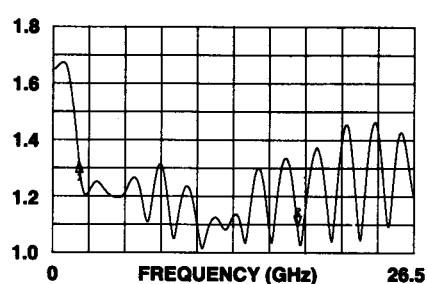
87302C
Markers at 0.5 and 18 GHz



87303C
Markers at 1 and 18 GHz



87304C
Markers at 2 and 18 GHz





Agilent 代理商 Updates

www.agilent.com/find/emailupdates

Get the latest information on the products and applications you select.



Agilent Open

www.agilent.com/find/open

Agilent Open simplifies the process of connecting and programming test systems to help engineers design, validate and manufacture electronic products. Agilent offers open connectivity for a broad range of system-ready instruments, open industry software, PC-standard I/O and global support, which are combined to more easily integrate test system development.



Agilent Direct

www.agilent.com/find/agilentdirect

Quickly choose and use your test equipment solutions with confidence.

www.agilent.com

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Phone or Fax

North America

Canada	(877) 894-4414
Latin America	305 269 7500
United States	(800) 829-4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Thailand	1 800 226 008

Europe & Middle East

Austria	0820 87 44 11
Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700*
	**0.125€ fixed network rates
Germany	01805 24 6333*
	**0.14€/minute
Ireland	1890 924 204
Israel	972 3 9288 504/544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
Switzerland (French)	44 (21) 8113811(Opt 2)
Switzerland (German)	0800 80 53 53 (Opt 1)
United Kingdom	44 (0) 7004 666666

Other European Countries:

www.agilent.com/find/contactus

Revised: October 24, 2007

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 1993, 2004, 2005, 2007

Printed in USA, October 29, 2007

5091-6190E



Agilent Technologies