

4-Way Power Divider AN44182A

AN44182A is a 4-Way Power Divider for applications in a frequency range of DC to 40 GHz. Suitable for distributing signals in the multi-channel evaluation system and during the comparative evaluation.

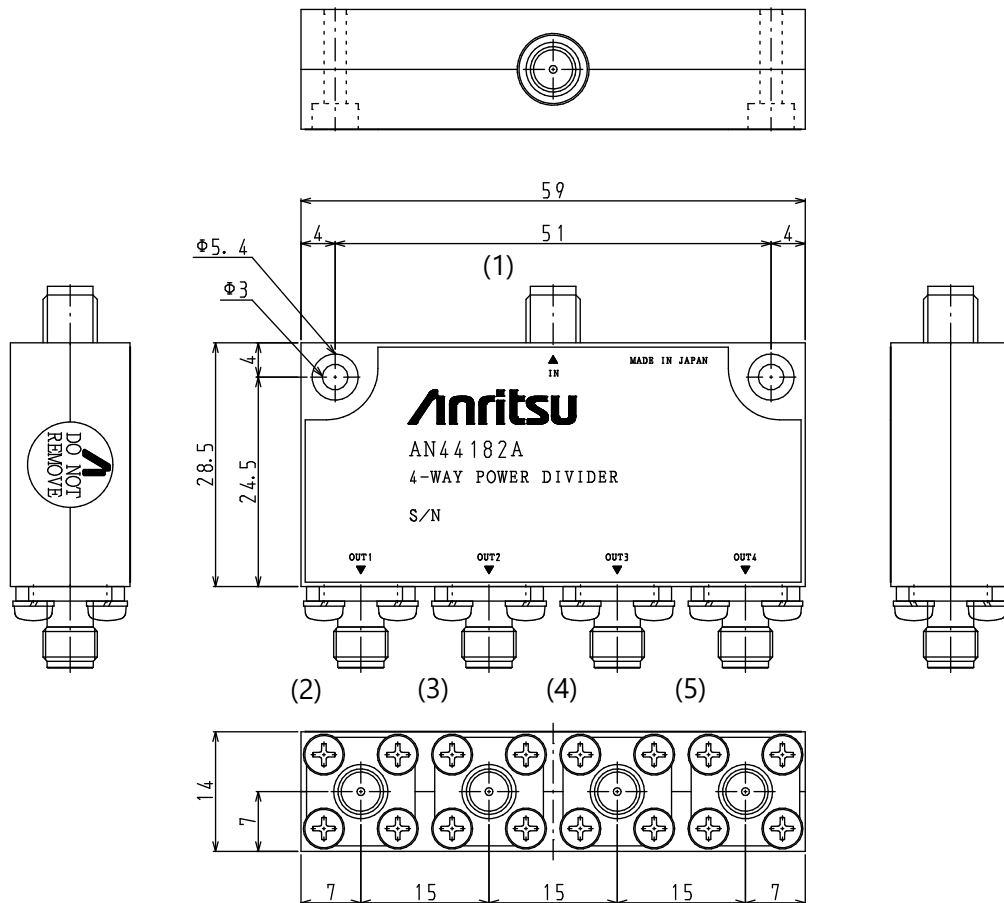
FEATURES

- 4 branches
- Wideband: DC to 40 GHz
- Insertion Loss: 12 dB typ.
- Skew between channels: <3 ps
- I/O Interface: K-connector
- Small Package: 28.5 mm x 59 mm x 14 mm

APPLICATION

- Signal distribution at the multi-channels system
/ Comparison with characteristics

DIMENSIONS



Unit: mm

PIN CONFIGURATION

No.	Symbol	Function	Remarks
1	IN	Signal Input	K-F connector
2	OUT1	Signal Output 1	K-F connector
3	OUT2	Signal Output 2	K-F connector
4	OUT3	Signal Output 3	K-F connector
5	OUT4	Signal Output 4	K-F connector

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Ratings	Unit
Input Power	P_{IN}	+30	dBm
Operating Ambient Temperature ^{*1}	T_a	0 to +70	°C
Storage Temperature ^{*1}	T_{stg}	-40 to +85	°C

*Excess over the absolute maximum ratings may cause device failure.

*1 No Condensation

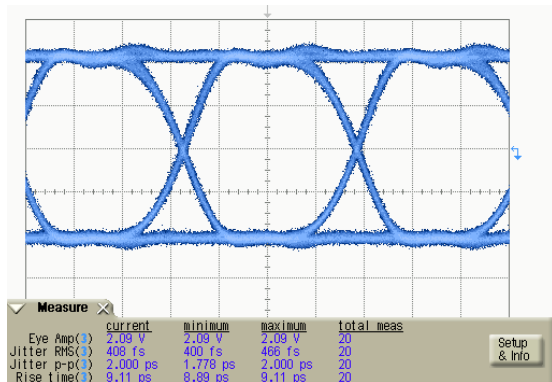
SPECIFICATIONS

($T_a = 25^{\circ}\text{C}$, $Z_{in} = 50\ \Omega$, $Z_{out} = 50\ \Omega$)

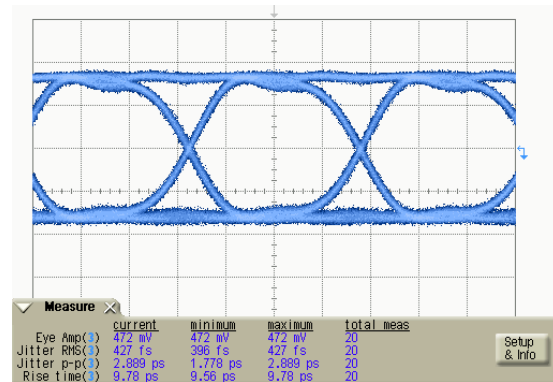
Item	Test Condition	Min.	Typ.	Max.	Unit
Frequency Range	–	DC	–	40	GHz
Insertion Loss	@DC	–	12	14	dB
	@40 GHz	–	13	15	dB
Input Return Loss	DC to 20 GHz	15	20	–	dB
	20G to 40 GHz	10	15	–	dB
Output Return Loss	DC to 40 GHz	7	10	–	dB
Group Delay	DC to 40 GHz	–	± 50	–	ps
Isolation	Out1(3) – Out2(4)	–	12	–	dB
	Between ports other than above	–	18	–	dB
Skew Between Channels	–	–	3	–	ps

PULSE RESPONSE

28 Gbit/s

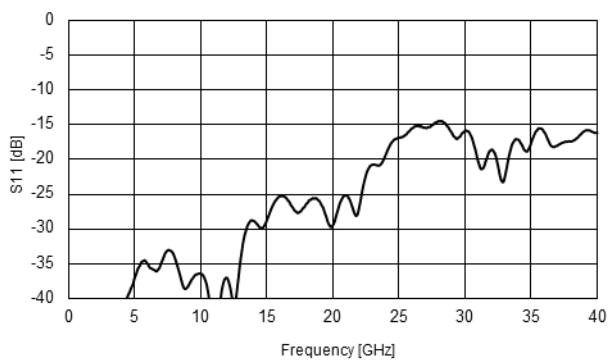


V: 0.50 V/div H: 10 ps/div
Input Waveform

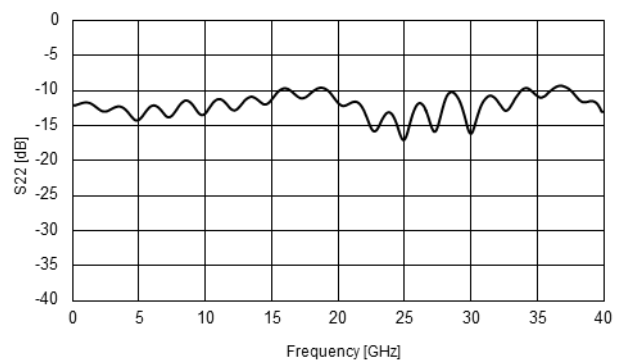


V: 0.15V/div H: 10ps/div
Output Waveform

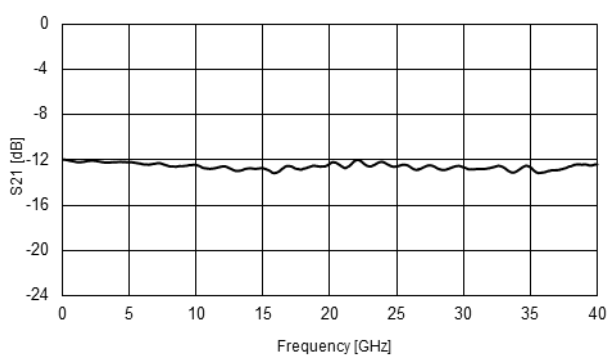
FREQUENCY RESPONSE



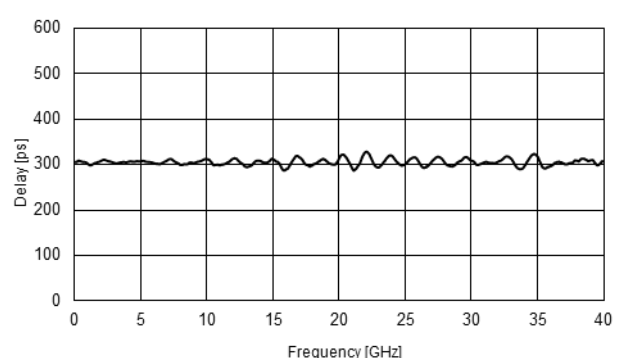
S11



S22



S21



Delay



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**Please read "Notes on Handling Ultrafast Electronic Devices"
before use.**

<https://www.anritsu.com/en-us/sensing-devices/guide/electronddevices-handling>



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