

AN44182A

4-WAY POWER DIVIDER

Features

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



Application

Multi-channel system and ratio measurement where signals are accurately divided or combined

Absolute Maximum Ratings

Items	Ratings		Units
	min.	max.	
Input Power		+30	dBm
Operating Temperature	0	+70	°C
Storage Temperature	-40	+85	°C

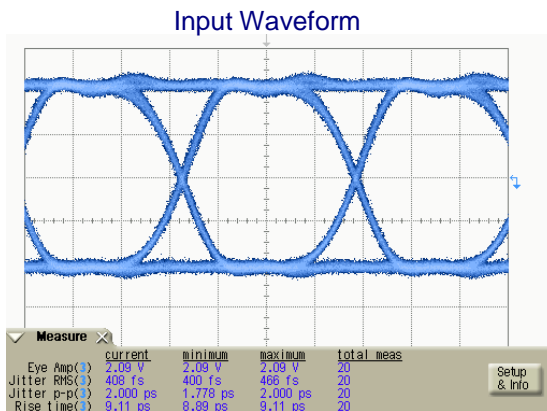
Specifications

Ta = 25°C, Zin = 50 ohms, Zout = 50 ohms

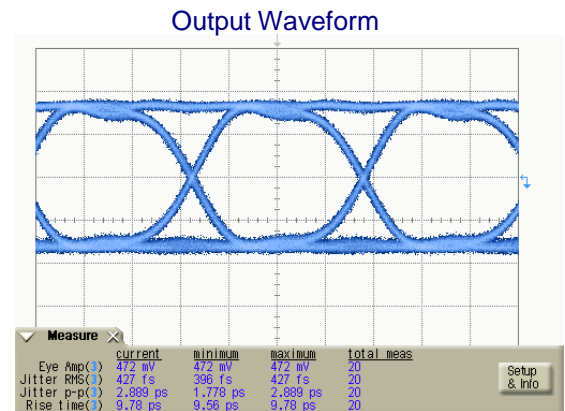
Items	Conditions	Units	Specifications		
			min.	typ.	Max.
Frequency Range		GHz	DC		40
Insertion Loss	@DC	dB		12	14
	@40GHz			13	15
Input Return Loss	DC to 20 GHz	dB	15	20	
	20G to 40GHz		10	15	
Output Return Loss	DC to 40 GHz	dB	7	10	
Group Delay	DC to 40GHz	ps		+/-50	
Isolation	Out1(3) to Out2(4)	dB		12	
	Others			18	
Skew		ps		3	

Characteristics

Pulse Response @28Gbit/s

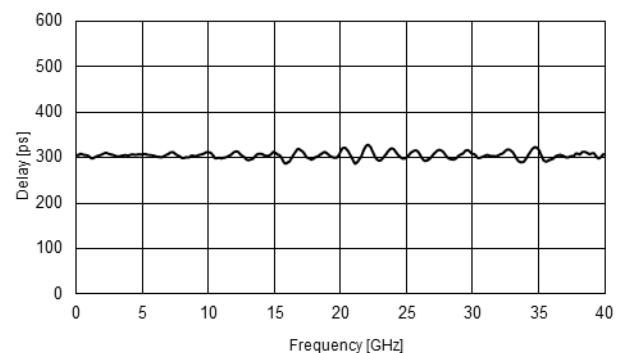
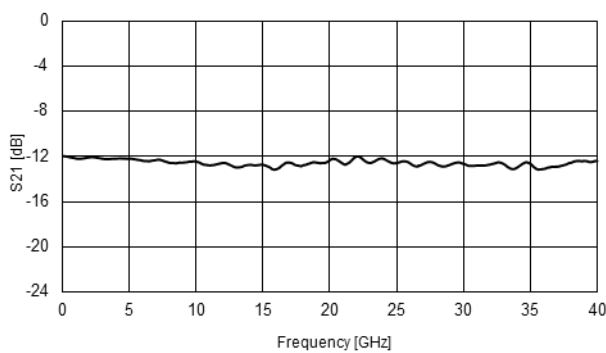
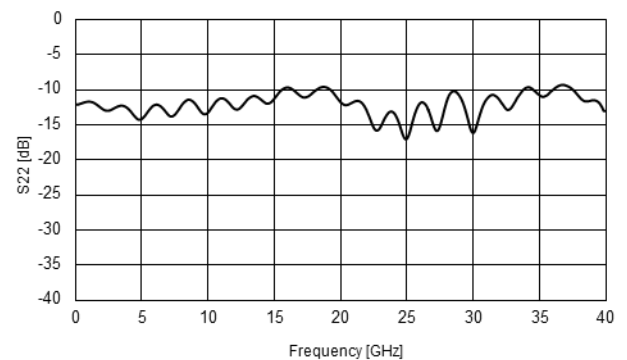
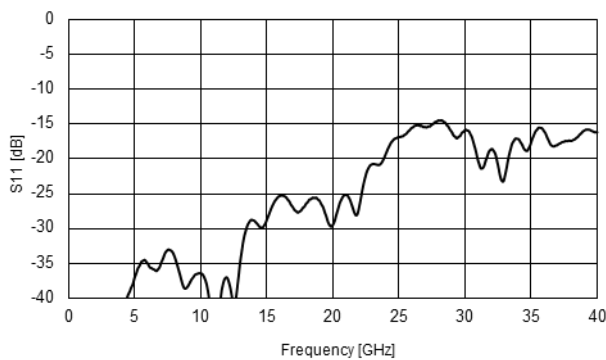


V: 0.50V/div H: 10ps/div

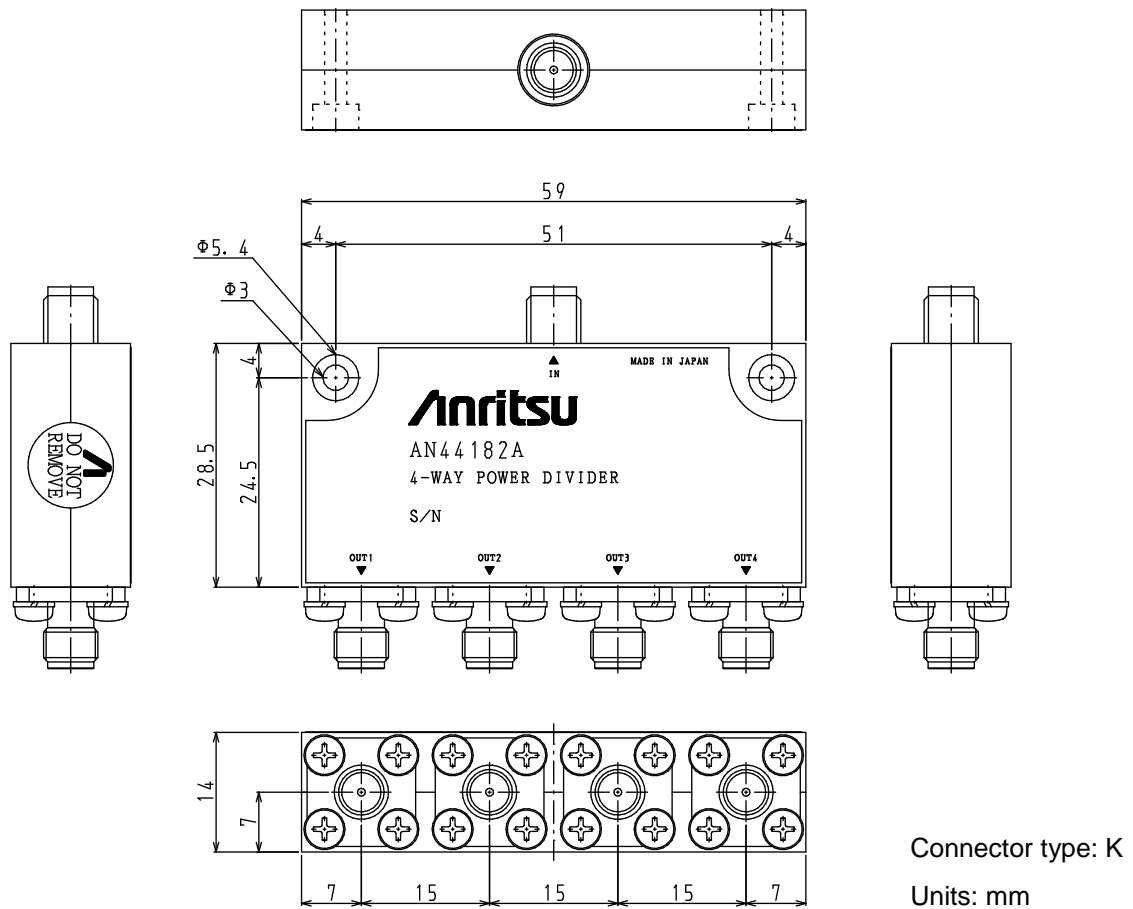


V: 0.15V/div H: 10ps/div

S-Parameter



Dimensions



No.	Symbols	Functions	Remarks
1	IN	Signal input	K-Female
2	OUT1	Signal output-1	K-Female
3	OUT2	Signal output-2	K-Female
4	OUT3	Signal output-3	K-Female
5	OUT4	Signal output-4	K-Female

Specifications are subject to change without notice.