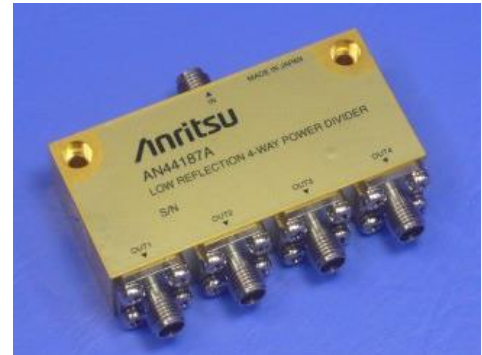


AN44187A

Low reflection 4-way power divider

Features

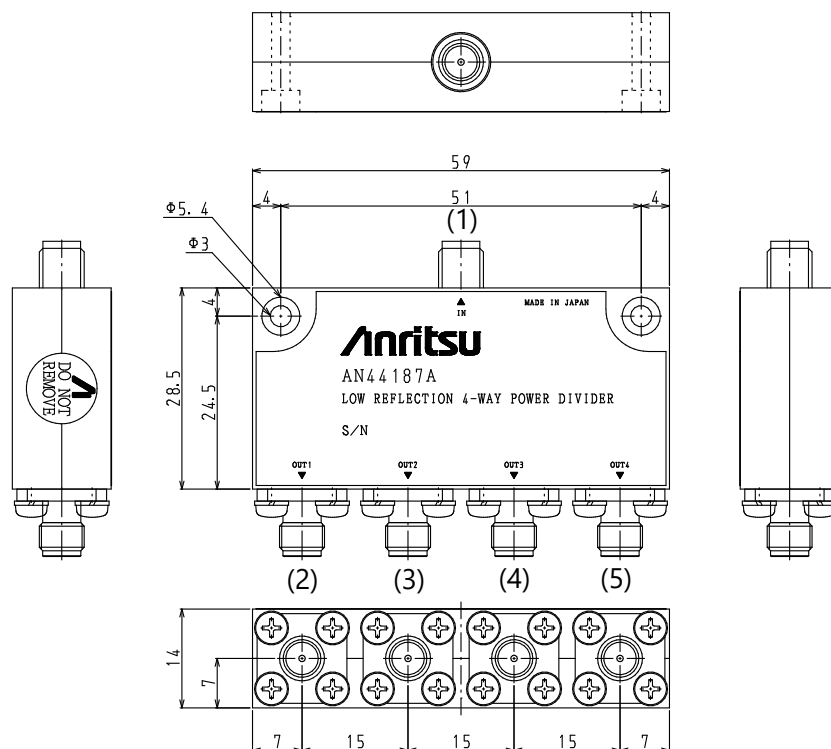
- Output Port: 4-outputs
- Wideband: DC to 40 GHz
- Insertion loss: 12 dB typ.
- Skew between channels: < 3 ps
- Low reflection: > 15 dB
- Small Package: 28.5 mm×59 mm×14 mm



Application

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

Dimensions (Unit: mm)



Pin assign

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

Absolute Maximum Ratings

Item	Specification		Unit
	min.	max.	
Input Power, P_{in}	–	+30	dBm
Operation Temperature, T_a	0	+70	°C
Storage Temperature, T_{stg}	-40	+85	°C

Specifications

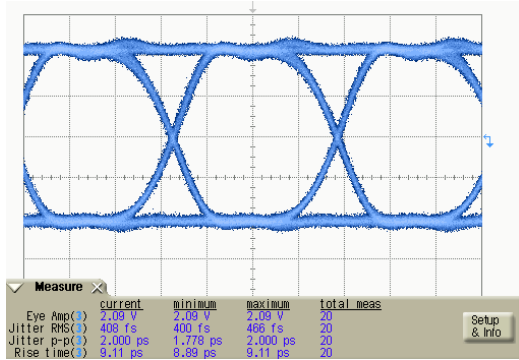
$T_a=25^{\circ}\text{C}$, $Z_{in}=50\ \Omega$, $Z_{out}=50\ \Omega$

Item	Condition	Specification			Unit
		min.	typ.	max.	
Frequency range	–	DC	–	40	GHz
Insertion loss	@DC	–	12	14	dB
	@40 GHz	–	13	15	
Input return loss	DC to 20 GHz	15	20	–	dB
	20 GHz to 40 GHz	10	15	–	
Output return loss	DC to 20 GHz	15	20	–	dB
	20 GHz to 40 GHz	10	15	–	
Group delay	DC to 40 GHz	–	+/-50	–	ps
Isolation	OUT1(3) to OUT2(4)	–	6	–	dB
	Between ports other than above	–	18	–	
Skew Between the channels	–	–	3	–	ps

Characteristics

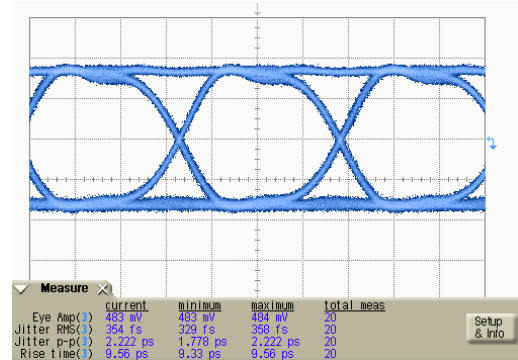
Pulse Response characteristics

Input Waveform @28 Gbit/s



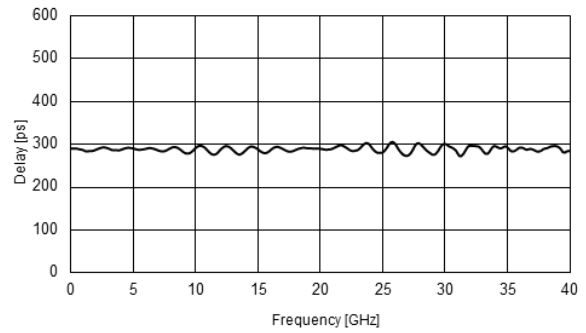
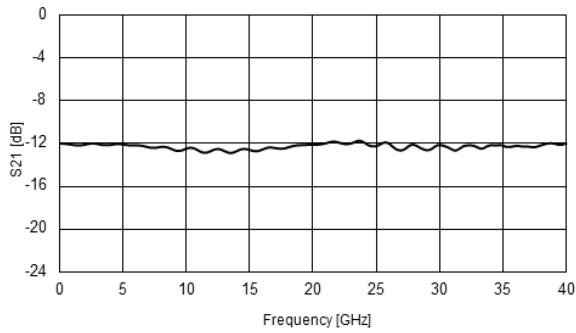
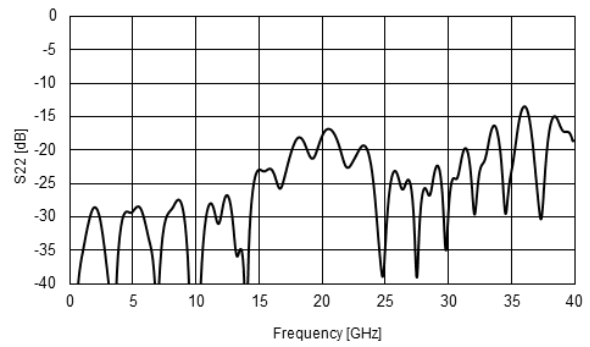
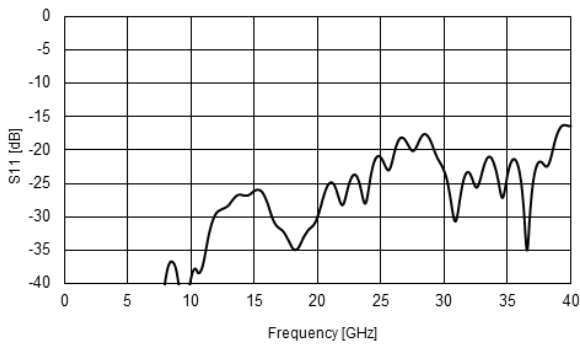
V:0.5V/div H:10ps/div

Output Waveform @28 Gbit/s



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

S-parameter



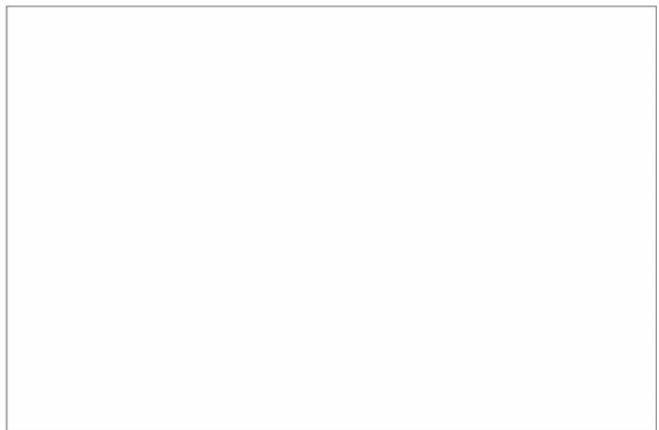


**ANRITSU CORPORATION
SENSING & DEVICES COMPANY
OVERSEAS SALES DEPT**

Tel +81 46 296 6783 fax +81 46 225 8390
5-1-1 Onna, Atsugi-shi, Kanagawa
243-8555 Japan

URL: <https://www.anritsu.com/sensing-devices>

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