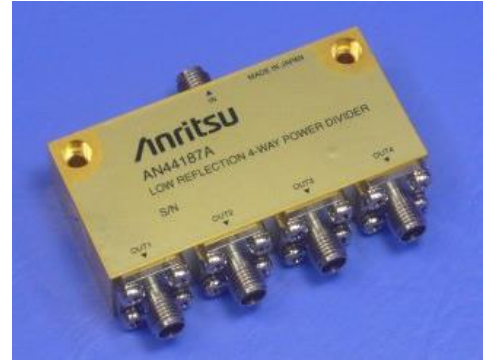


Low Reflection 4-Way Power Divider AN44187A

FEATURES

- Output Port: 4-outputs
- Wideband: DC to 40GHz
- Insertion Loss: 12dB typ.
- Skew: <3ps
- Low Reflection: >15 dB
- I/O Interface: K-connector
- Small Package: 28.5 x 59 x 14 mm



APPLICATION

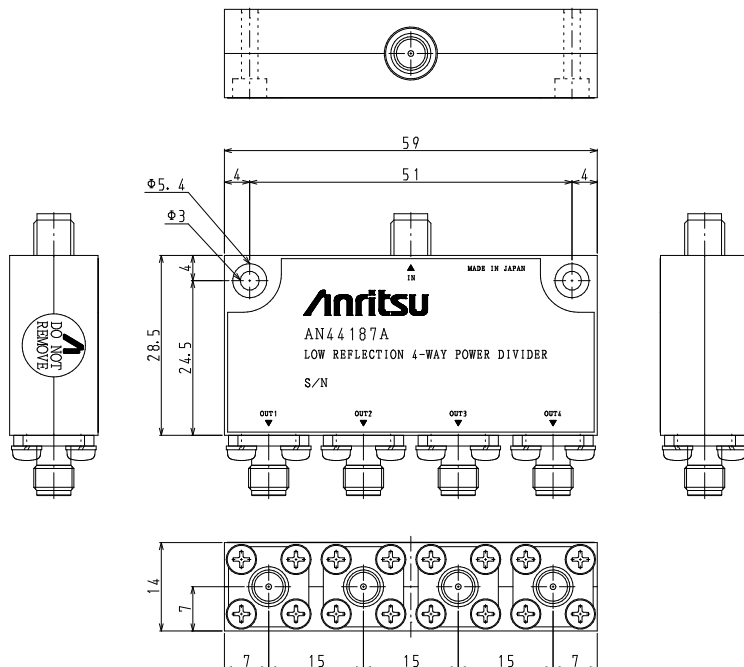
- Signal distribution for multi-channel system and comparative evaluation.

ABSOLUTE MAXIMUM RATINGS

Item	Rating		Unit
	Min.	Max	
Input Power		+30	dBm
Operating Temperature	0	+70	°C
Storage Temperature	-40	+85	°C

*Excess over the absolute maximum ratings may lead to damage.

DIMENSIONS



PIN CONFIGURATION

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

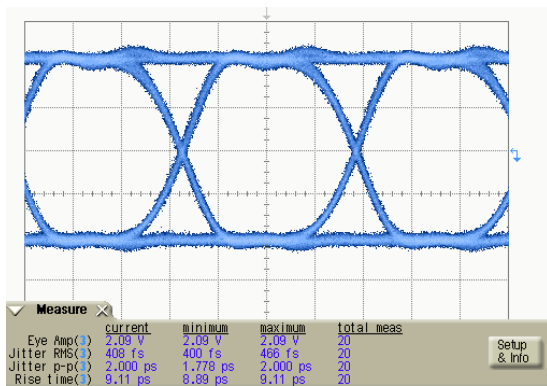
(Ta = 25°C, Zin = 50 ohms, Zout = 50 ohms)

Item	Test condition	Min.	Typ.	Max.	Unit
Frequency Range		DC		40	GHz
Insertion Loss	@DC		12	14	dB
	@40GHz		13	15	
Input Return Loss	DC to 20 GHz	15	20		dB
	20G to 40GHz	10	15		
Output Return Loss	DC to 20 GHz	15	20		dB
	20G to 40GHz	10	15		
Group Delay	DC to 40GHz		+/-5		ps
Isolation	Out1(3) to Out2(4)		6		dB
	Others		18		
Skew			3		ps

TYPICAL CHARACTERISTICS

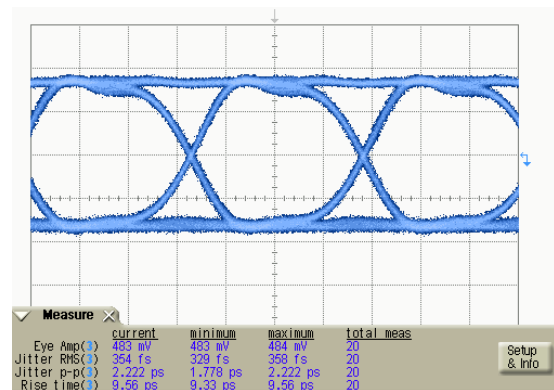
Pulse Response@28Gbit/s

Input Waveform



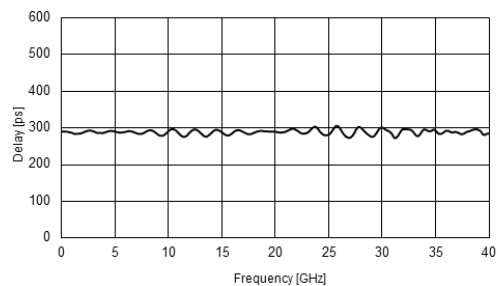
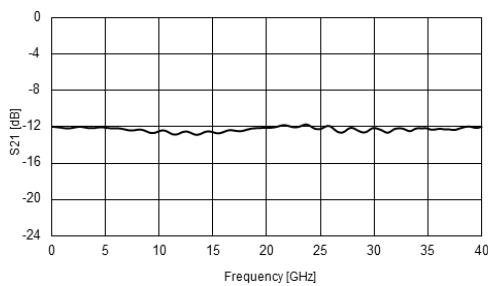
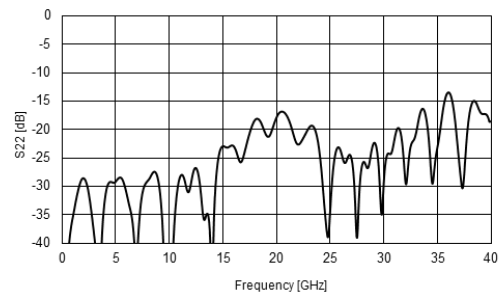
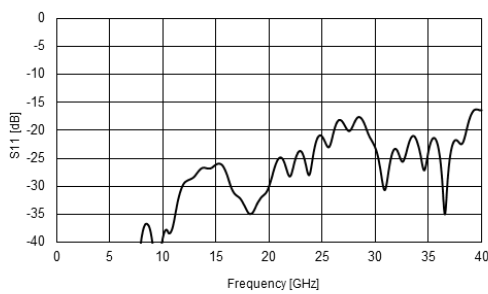
V: 0.50V/div H: 10ps/div

Output Waveform



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

S-Parameter





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