

Data Sheet

FAC4325

50Ω Up to 0.8W DC to 24GHz

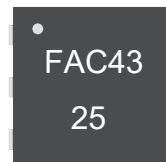
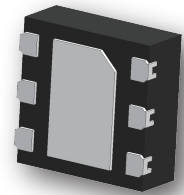


Features

- Small Size (2×2mm DFN package)
- Super Wide bandwidth,DC-24GHz
- Excellent VSWR,1.4:1 typ.
- High Power Handling,0.8W
- Operating Temperature:-40°C to 85°C
- High ESD level*mls3

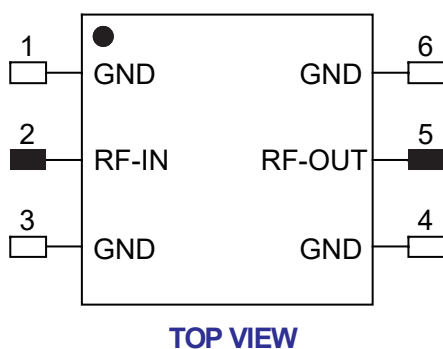
Typical Applications

- 5G
- Test and Measurement
- Radar
- Communication
- Defense



General Description

FAC4325 is absorptive fixed attenuator fabricated using highly reliable GaAs MMIC process. The model operates from DC to 24GHz.It achieves outstanding attenuation accuracy and flatness while maintains excellent VSWR throughout the entire band. The model can also handle input power up to 0.8W,which makes this model an ideal choice for a wide range of applications.



Notes:

- 1.This part has passed through 100% RF test.

Yantel Corporation

Add: No.308-322, 3F, Building 1, Juchuang Jingu Innovation Park, Wenyuan Road 35, Xili Street, Nanshan, Shenzhen, China

Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

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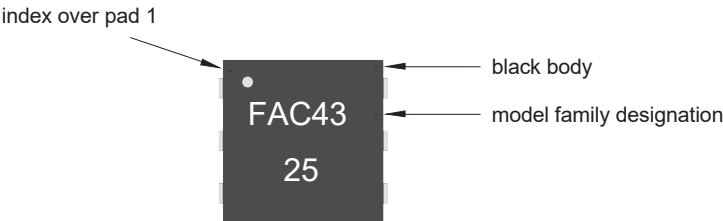


Key Features

Feature	Advantages
Wideband operation, From DC to 24 GHz	Supports a wide array of applications including 5G, wireless infrastructure, microwave communications, satellite, defense and aerospace, medical broadband and optic applications
Small Size and simple to use (2 mm x 2 mm)	As a single chip solution, the FAC43 series occupies less board space than a lumped element approach, minimizes component count and ensures repeatable performance over wide frequency range.
Wide range of nominal attenuation values (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20 & 30)	Small increment offering enables circuit designer to change attenuation values without motherboard redesign making the FAC43 series ideal for select at test application.
MCLP™ Package	Low Inductance, repeatable transitions, excellent thermal path make the FAC43 series an ideal solution as an alternative to “do it yourself” lumped element-based approach.

* IPD - Integrated Passive Device.

Product Marking

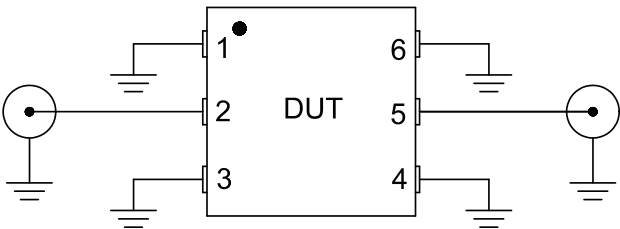


Marking may contain other features or characters for internal lot control

ESD Rating

Human Body Model (HBM): Class 1B(Pass 800V) per ANSI/ESD STM 5.1-2001

Characterization Test Circuit



Block diagram fo Test Circuit used for characterization.

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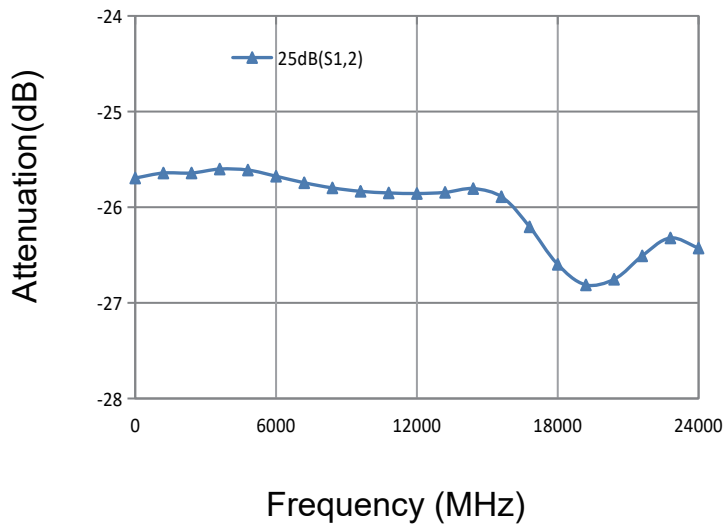
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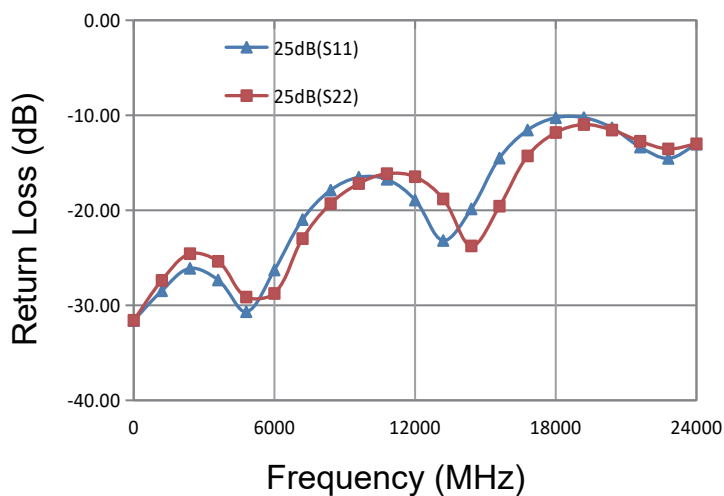
Electrical Specifications at 25° C

Paramter	Freq.Range (GHz)	Min.	Typ.	Max.
Frequency Range	-	DC	-	24
Attenuation (dB)	DC-24	24.9	25.8	26.9
Return Loss (dB)	DC-24	10.1	16	-

Test Curve



Frequency MHZ	S12 (dB)	Return Loss(dB)	
		S11	S22
0	25.70	-31.60	-31.58
1200	25.64	-28.47	-27.38
2400	25.64	-26.11	-24.57
3600	25.60	-27.34	-25.37
4800	25.61	-30.68	-29.13
6000	25.68	-26.28	-28.75
7200	25.74	-20.98	-22.98
8400	25.80	-17.88	-19.29
9600	25.83	-16.52	-17.18
10800	25.85	-16.74	-16.14
12000	25.86	-18.92	-16.46
13200	25.84	-23.18	-18.81
14400	25.81	-19.85	-23.75
15600	25.89	-14.51	-19.57
16800	26.21	-11.55	-14.28
18000	26.60	-10.25	-11.81
19200	26.81	-10.24	-10.97
20400	26.75	-11.32	-11.55
21600	26.51	-13.35	-12.74
22800	26.32	-14.54	-13.54
24000	26.43	-13.04	-13.00



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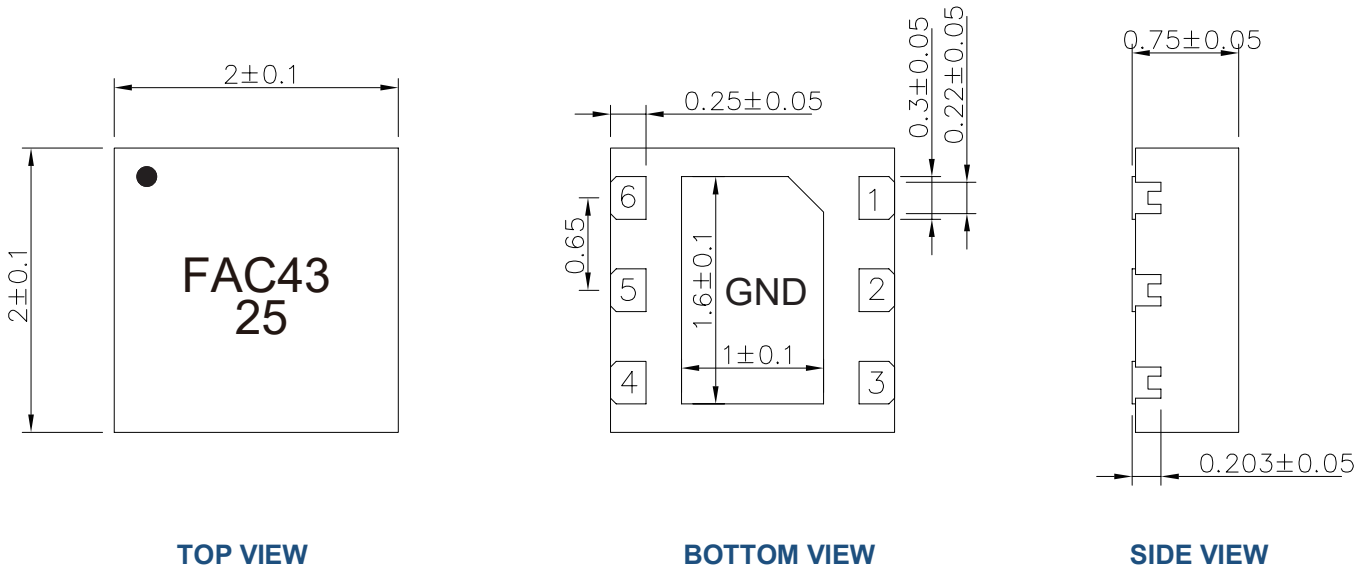
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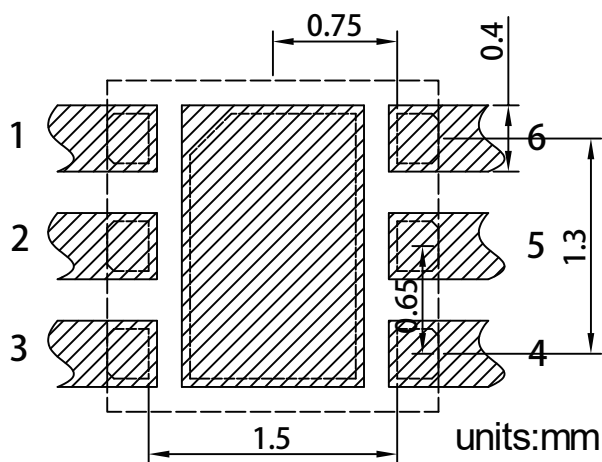
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Outline Drawing



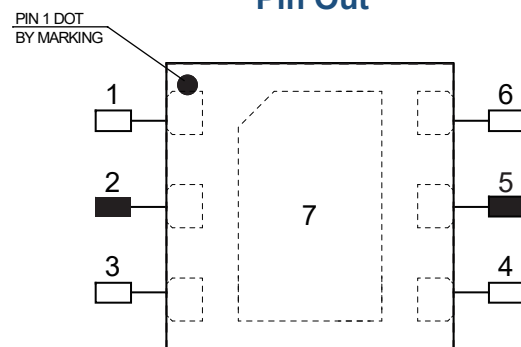
Land Pattern



Recommended Land Pattern Top View

Notes: All dimensions show in millimeters

Pin Out



TOP VIEW

Notes:

1. Require to add Capacitors of DC Blocker between Pins(with black color) and external circuit to prevent DC signal entry to guarantee parts normal work.
2. This part has passed through 100% RF test.

Pin #	Connection
1	GND
2	IN
3	GND
4	GND
5	OUT
6	GND
7	GND

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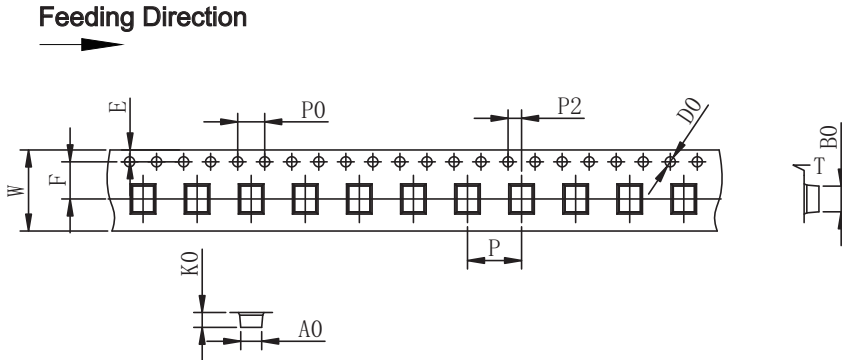
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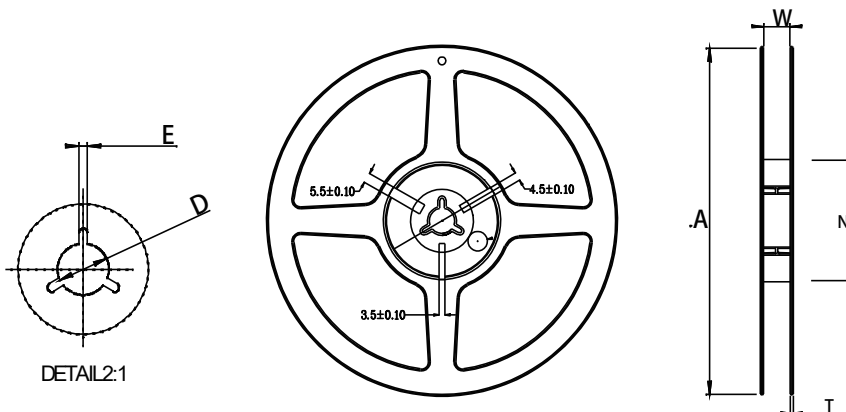
Tape and Reel Drawing



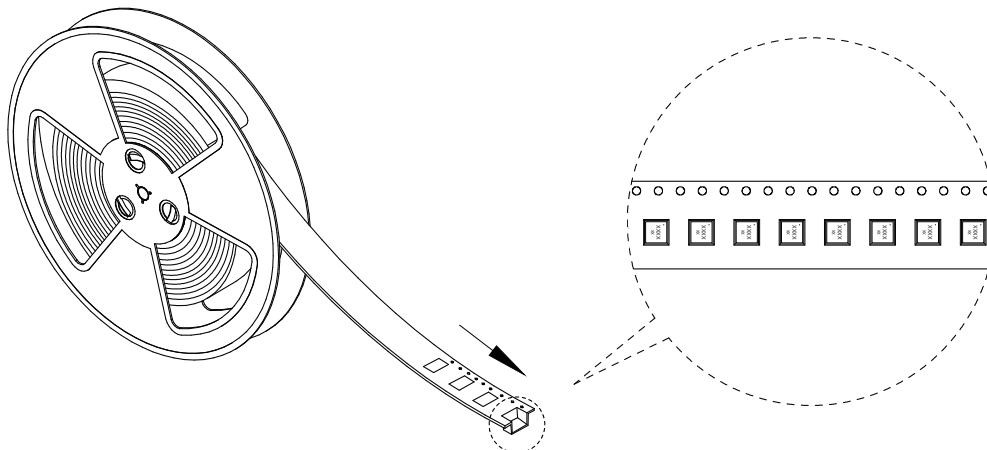
ITEM	W	A0	B0	K0	K1	P	F	E	D0	P0	P2	t	7"
DIM(mm)	8.0	2.35	2.45	1.15		4.0	3.5	1.75	1.5	4.0	2.0	0.2	P/R
TOLE	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0.00	+0.10 -0.10	+0.10 -0.10	+0.05 -0.05	4000pcs

Notice:

- A. 10 Sprocket hole pitch cumulative tolerance is 0.2mm.
- B. Carrier camber shall be not more than 1mm per 100mm through a length of 250mm.
- C. All dimensions meet EIA-418-B requirements.
- D. A0 & B0 measured as indicated.
- E. K0 measured from a place on the inside bottom of the pocket to top surface of carrier.
- F. Material: PE 100
- G. Thickness: 0.20±0.05mm
- H. 4000 units (maximum) / T&R



Symbol	Dimensions(mm)
W	9.0±0.4
A	180±0.3
N	60±0.3
T	1.4±0.2
E	3±0.5
D	25±0.8



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