$50\Omega$  Up to 2W DC to 32GHz



## **Features**

- Small Size (2×2mm DFN package)
- Super Wide bandwidth, DC-32GHz
- Excellent VSWR,1.3:1 typ.
- High Power Handling,2W
- Operating Temperature:-40°C to 85°C

## **Typical Applications**

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



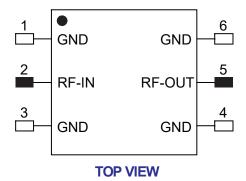






## **General Description**

FAC4303 is absorptive fixed attenuator fabricated using highly reliable GaAs MMIC process. The model operates from DC to 32GHz.It achieves outstanding attenuation accuracy and flatness while maintains excellent VSWR throughout the entire band. The model can also handle input power up to 2W, which makes this model an ideal choice for a wide range of applications.



#### Notes:

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

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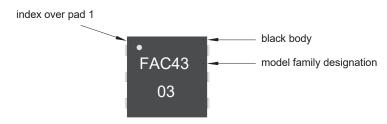


#### **Key Features**

Feature	Advantages
WIdeband operation,From DC to 32 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.

<sup>\*</sup> IPD - Integraded Passive Device.

#### **Product Marking**

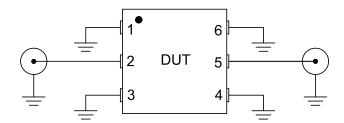


Marking may contain other features or characters for internal lot control

### **ESD Rating**

Human Body Model (HBM): Class 2(Pass 2000V) per ANSI/ESD STM 5.1-2001

#### **Characterization Test Circuit**



Block diagram fo Test Circuit used for characterization.

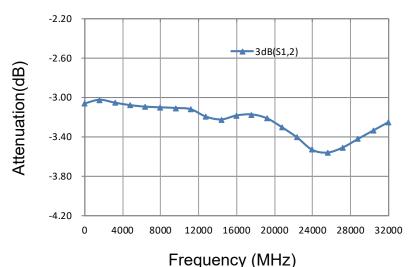
## $50\Omega$ Up to 2W DC to 32GHz



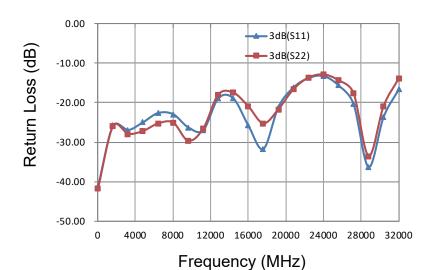
## Electrical Specifications at 25° C

Paramter	Freq.Range (GHz)	Min.	Тур.	Max.
Frequency Range		DC	ı	32
Attenuation (dB)	DC-32	2.9	3.2	3.6
Return Loss (dB)	DC-32	12	18	-

## **Test Curve**





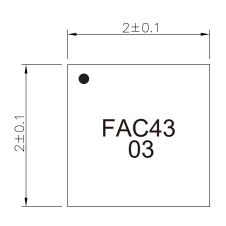


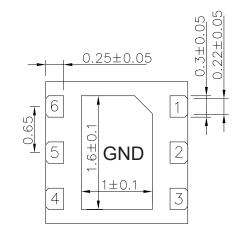
### **Yantel Corporation**

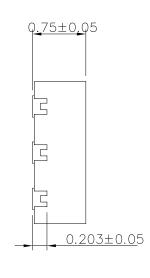
 $50\Omega$  Up to 2W DC to 32GHz



## **Outline Drawing**





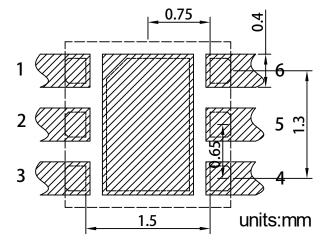


**TOP VIEW** 

**BOTTOM VIEW** 

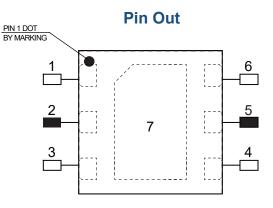
**SIDE VIEW** 

### **Land Pattern**



## Recommended Land Pattern Top View

Notes: All dimensions show in millimeters



#### Notes:

Require to add Capacitors of DC Blocker between
 Pins(with black color) and external circuit to prevent
 DC signal entry to guranteeparts normal work.

**TOP VIEW** 

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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