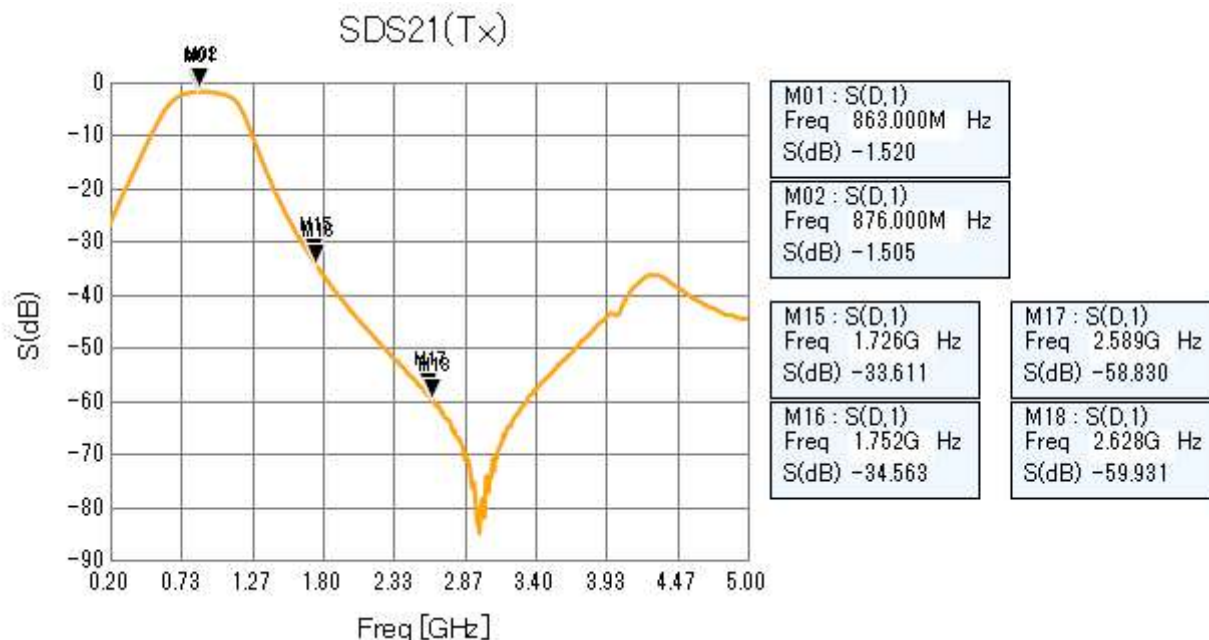


## DUAL MATCHING FILTER

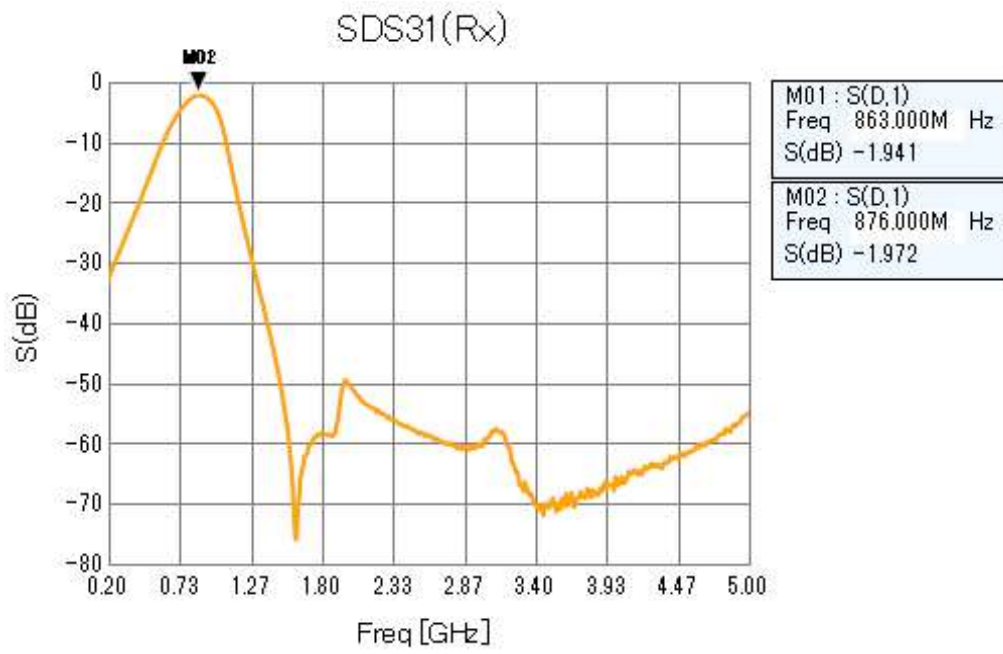
### 1. Characteristics (at -40 ~ +85°C)

Tentative Part Number	LFD21868MMF5E233	
Frequency Range (BW)	869.50 ± 6.50 MHz	
ANT Port Impedance (Nominal)	50 Ω	
Tx/Rx/TRx Port Impedance (Nominal)	Conjugate match with Silicon Labs EFR32FG series	
Insertion Loss in BW	Tx	1.81 dB max. at 25°C 2.01 dB max. at -40~ +85°C
	Rx	2.50 dB max. at 25°C 3.00 dB max. at -40~ +85°C
Attenuation (Absolute value)	Tx	30.0 dB min. at 2f <sub>0</sub> 39.0 dB min. at 3f <sub>0</sub>
ANT Port V.S.W.R. in Tx BW	2.10 max.	
Power Capacity	500 mW max.	

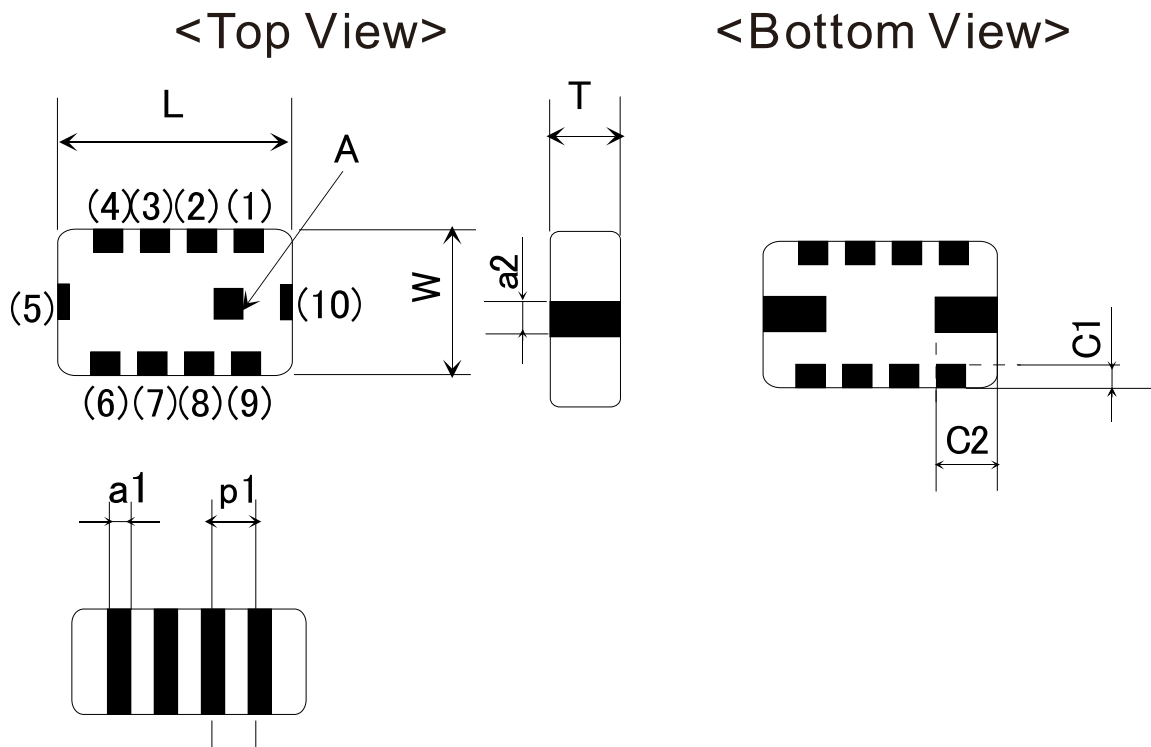
TX



RX



## 2. Construction, Dimensions &amp; Marking



Mark	Meaning
A	Directional Input Mark

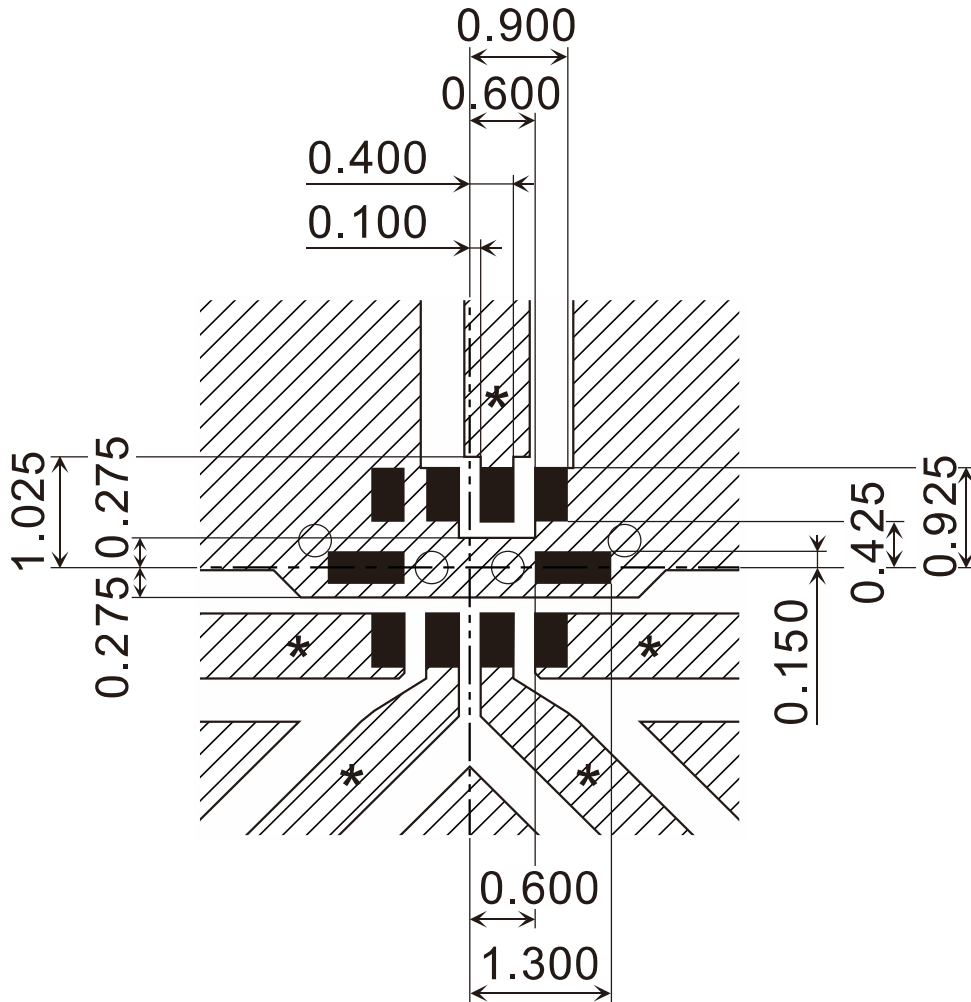
(in mm)

Mark	Dimension	Mark	Dimension
L	$2.00 \pm 0.15$	a2	$0.30 \pm 0.15$
W	$1.25 \pm 0.15$	c1	$0.20 \pm 0.15$
T	0.7max	c2	$0.40 \pm 0.15$
a1	$0.25 \pm 0.15$	p1	$0.50 \pm 0.15$

**TERMINAL CONFIGURATION**

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(6)	RX_N
(2)	ANT	(7)	RX_P
(3)	GND	(8)	TX_N
(4)	GND	(9)	TX_P
(5)	GND	(10)	DC-Feed or GND

3. Land Pattern



(in mm)

- Land
- Solder resist
- No pattern Solder resist
- Through Hole  $\phi$  0.30

\*Line width to be designed to match 50 $\Omega$  characteristic impedance, depending on PCB material and thickness.



 **CAUTION**

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Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product when our product is mounted to your product.

All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our product deviating from the condition and the environment specified in this specification.

Please note that the only warranty that we provide regarding the products is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this specification.

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- Undersea equipment.
- Medical equipment.
- Traffic signal equipment.
- Burning / explosion control equipment
- Aerospace equipment
- Power plant control equipment
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Disaster prevention / crime prevention equipment.
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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When you are not able to return the signed version of specification sheet or approval sheet within 90 days from receiving date of specification sheet or approval sheet, it shall be deemed to be your consent on the content of specification sheet or approval sheet.

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