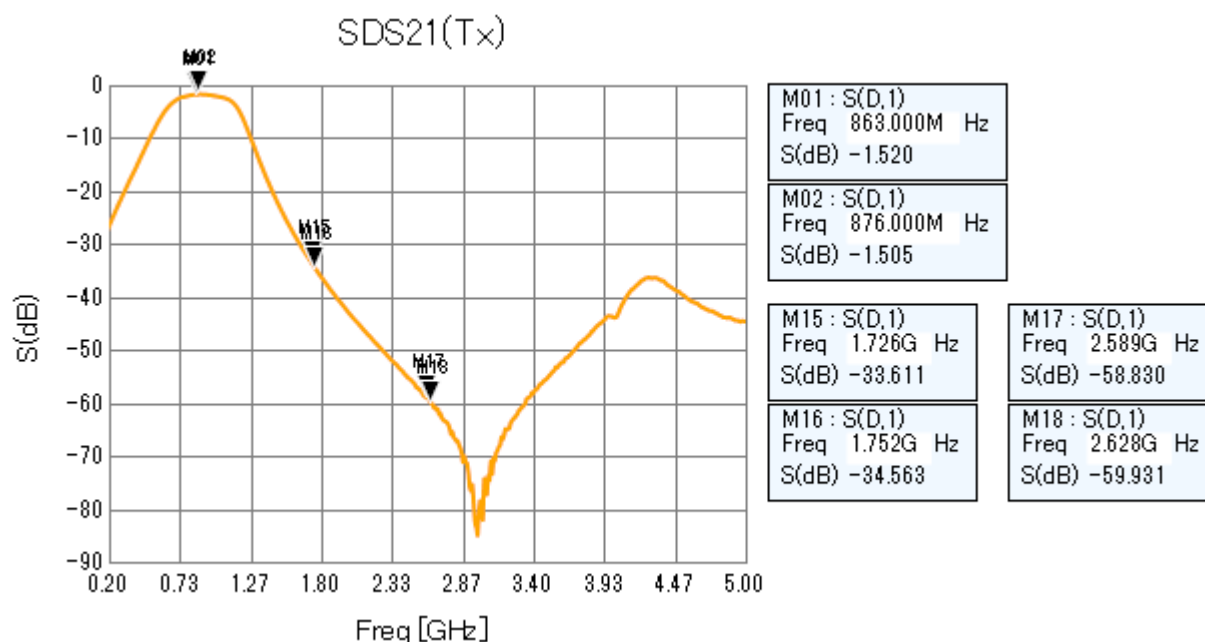


DUAL MATCHING FILTER

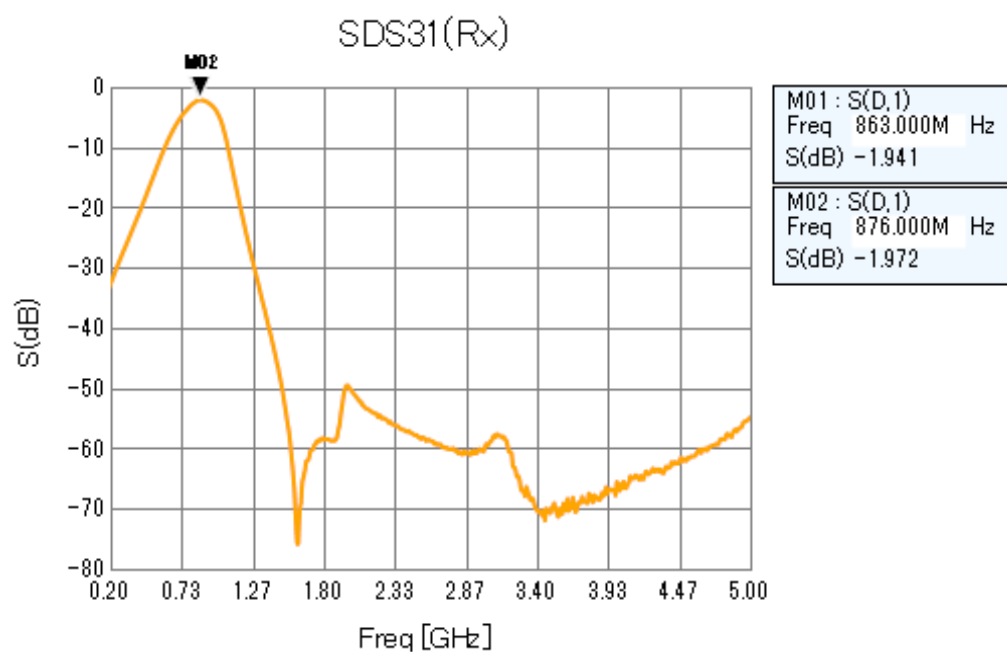
1. Characteristics (at -40 ~ +85°C)

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 2f0 39.0 dB min. at 3f0
ANT Port V.S.W.R. in Tx BW	2.10 max.	
Power Capacity	500 mW max.	

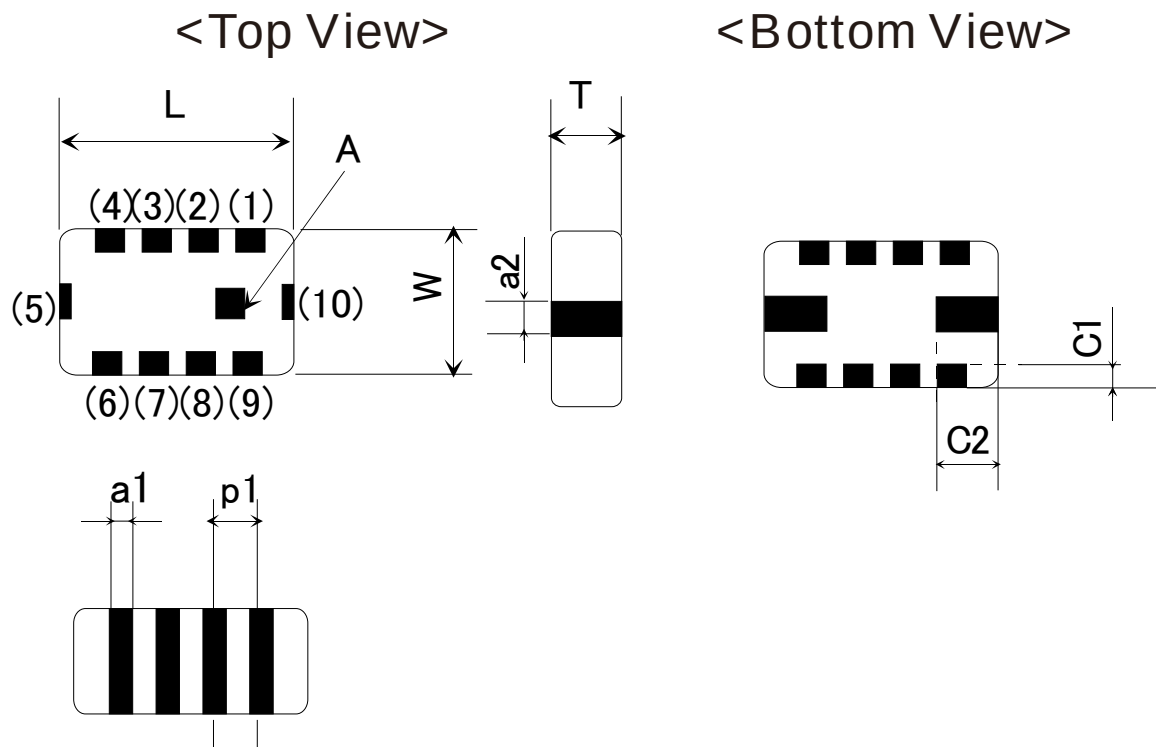
TX



RX



2. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

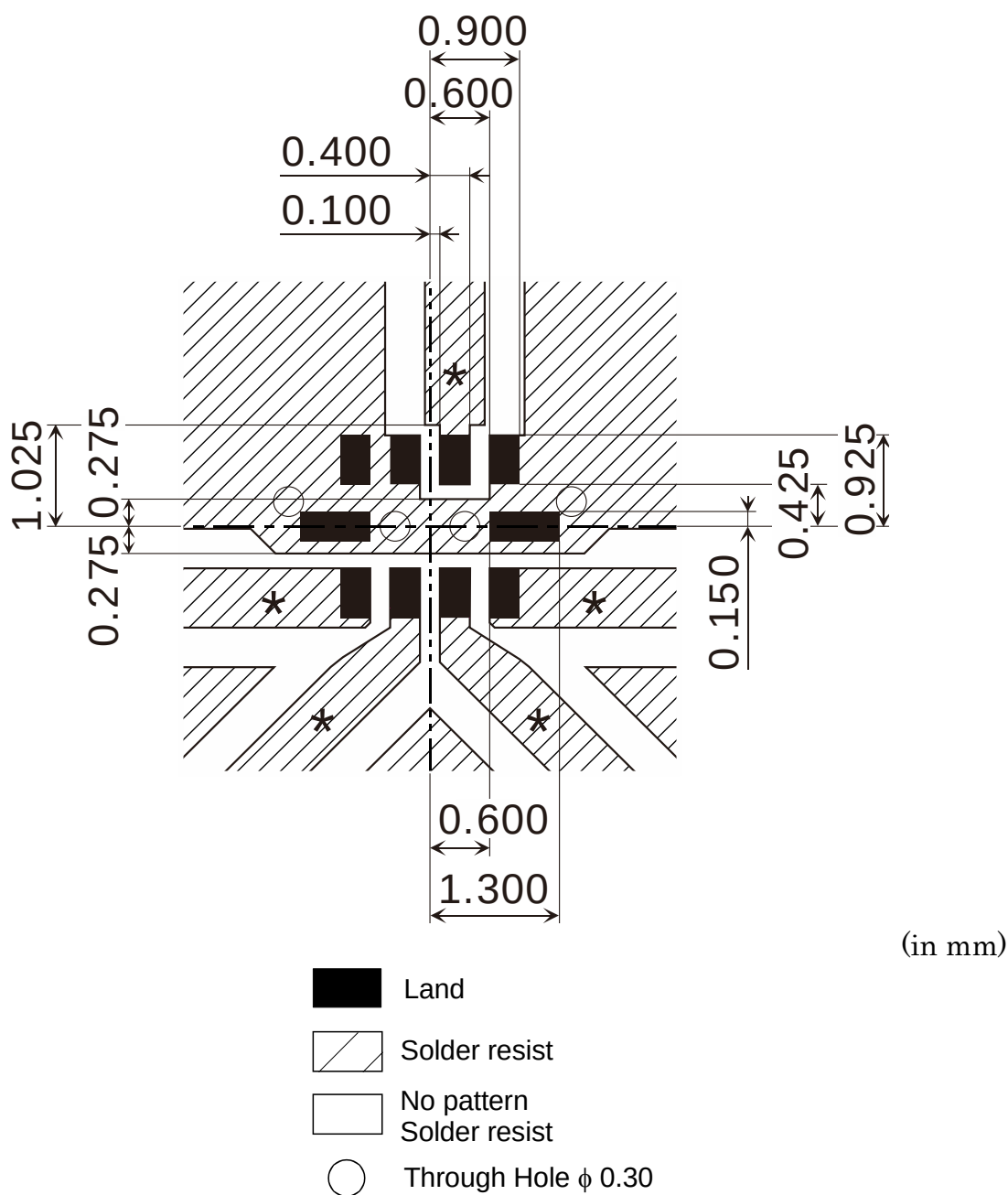
(in mm)

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



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

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- Undersea equipment.
- Medical equipment.
- Traffic signal equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.
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