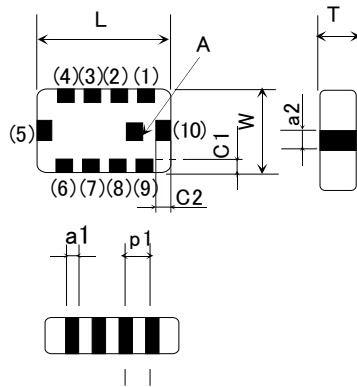


# DUAL MATCHING FILTER

## 1. Characteristics (at -40~+85°C)

Part Number	LFD21868MMF1D386	
Frequency Range (BW)	891.50 ± 23.50 MHz	
ANT Port Impedance (Nominal)	50 Ω	
Tx/Rx/TRx Port Impedance (Nominal)	Conjugate match with CC112x	
Insertion Loss in BW	Tx	2.0 dB max
	Rx	3.3 dB max.
Attenuation (Absolute value)	Tx	35.0 dB min. at 1736.00 ~ 1830.00 MHz 37.0 dB min. at 2604.00 ~ 2745.00 MHz
Tx Port V.S.W.R. in BW	1.5 max.	
Rx Port V.S.W.R. in BW	2.2 max.	
Power Capacity	500 mW max.	

## 2. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

(in mm)

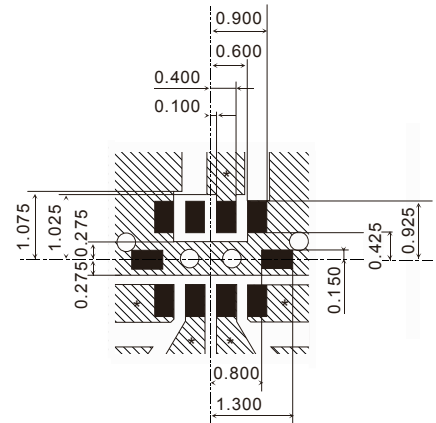
Mark	Dimension	Mark	Dimension
L	2.00±0.15	a2	0.30±0.15
W	1.25±0.15	c1	0.20±0.15
T	0.7 max.	c2	0.20±0.15
a1	0.25±0.15	p1	0.50±0.15

### TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(6)	R <sub>x1</sub> (LNA_N)
(2)	IN	(7)	R <sub>x2</sub> (LNA_P)
(3)	NC	(8)	TR <sub>x</sub>
(4)	GND	(9)	T <sub>x</sub> (PA)
(5)	GND	(10)	GND

Terminal of "NC" should be fixed to the no connected pattern.

## 3. Land Pattern



(in mm)

- Land
- Solder resist
- No pattern Solder resist
- Through Hole φ 0.30

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

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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.

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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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