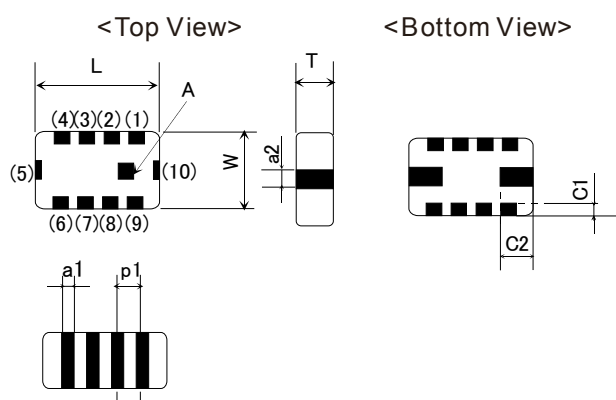


DUAL MATCHING FILTER (Preliminary)

1. Characteristics (at -40~+85°C)

Tentative Part Number	LFD21891MMF3D931TEMP	
Frequency Range (BW)	869.50 ± 6.50 MHz	
ANT Port Impedance (Nominal)	50 Ω	
Tx/Rx/TRx Port Impedance (Nominal)	Conjugate match with Si-Lab 446x series	
Insertion Loss in BW	Tx	1.7 dB Max at +25°C. 1.95 dB Max at -40~+85°C
	Rx	3.3 dB Max at +25°C. 3.6 dB Max at -40~+85°C
Attenuation (Absolute value)	Tx	34.0 dB Min. at 2f0 34.0 dB Min. at 3f0
ANT Port V.S.W.R. in Tx BW	1.54 Max.	
ANT Port V.S.W.R. in Rx BW	2.60 Max.	
Power Capacity	500 mW max.	

2. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

(in mm)

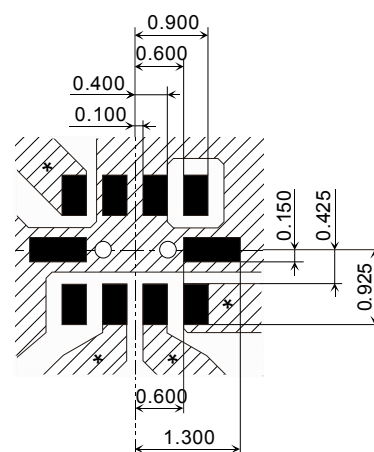
Mark	Dimension	Mark	Dimension
L	2.00±0.15	a2	0.80±0.15
W	1.25±0.15	c1	0.20±0.15
T	0.7max	c2	0.40±0.15
a1	0.25±0.15	p1	0.50±0.15

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	NC	(6)	NC
(2)	GND	(7)	TX
(3)	GND	(8)	RX_N
(4)	ANT	(9)	RX_P
(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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- 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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- Power plant control equipment
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
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