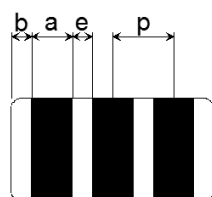
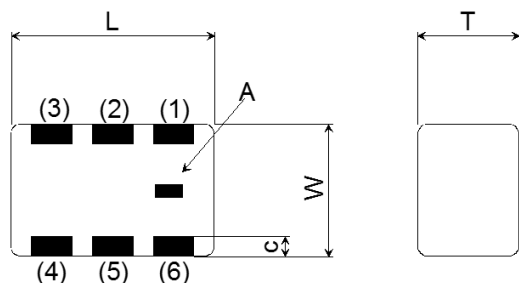


DIRECTIONAL COUPLER

1. Characteristics (at -40 ~ +85 °C)

Part Number		LDJ18829M24AH011	
Frequency Range (MHz)	f1	2495.00 ± 195.00 MHz	
	f2	1940.00 ± 230.00 MHz	
	f3	1469.00 ± 42.00 MHz	
	f4	829.00 ± 131.00 MHz	
Insertion Loss (dB)	f4	0.23 max.	
	f2,3	0.25 max.	
	f1	0.28 max.	
Coupling Value (dB) P 4-P1	698 MHz ~ 915 MHz	24.0 min.	28.0 max.
	1427 MHz ~ 1511 MHz	20.4 min.	24.4 max.
	1710 MHz ~ 2025 MHz	21.5 min.	26.5 max.
	2300 MHz ~ 2620 MHz	23.5 min.	28.5 max.
	2620 MHz ~ 2690 MHz	25.0 min.	29.0 max.
Directivity (dB) in f1, f2, f3, f4		16.5 min.	
V.S.W.R. in f1, f2, f3, f4		1.69 max.	
Characteristics Impedance		50 Ω (Nominal)	
Power Capacity		3W max. (50 Ω Load)	

2. Construction, Dimensions & Marking

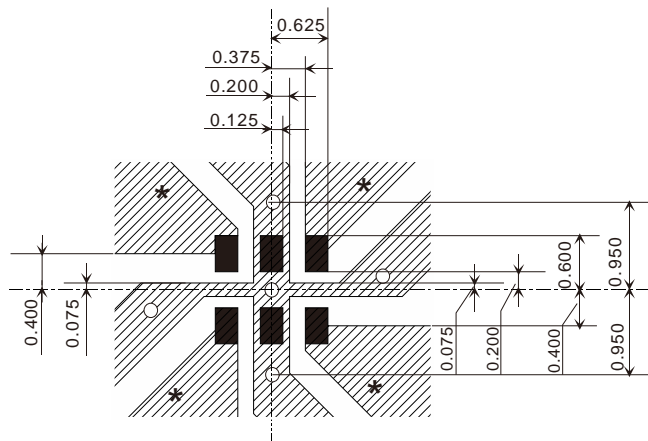


(in mm)

Mark.	Meaning.
A	Directional Input Mark

Mar	Dimension	Mar	Dimension
L	1.6±0.1	b	0.20±0.15
W	0.8±0.1	c	0.15±0.10
T	0.7 max.	e	0.3±0.1
a	0.2±0.1	p	0.50±0.05

3. Land Pattern



(in mm)

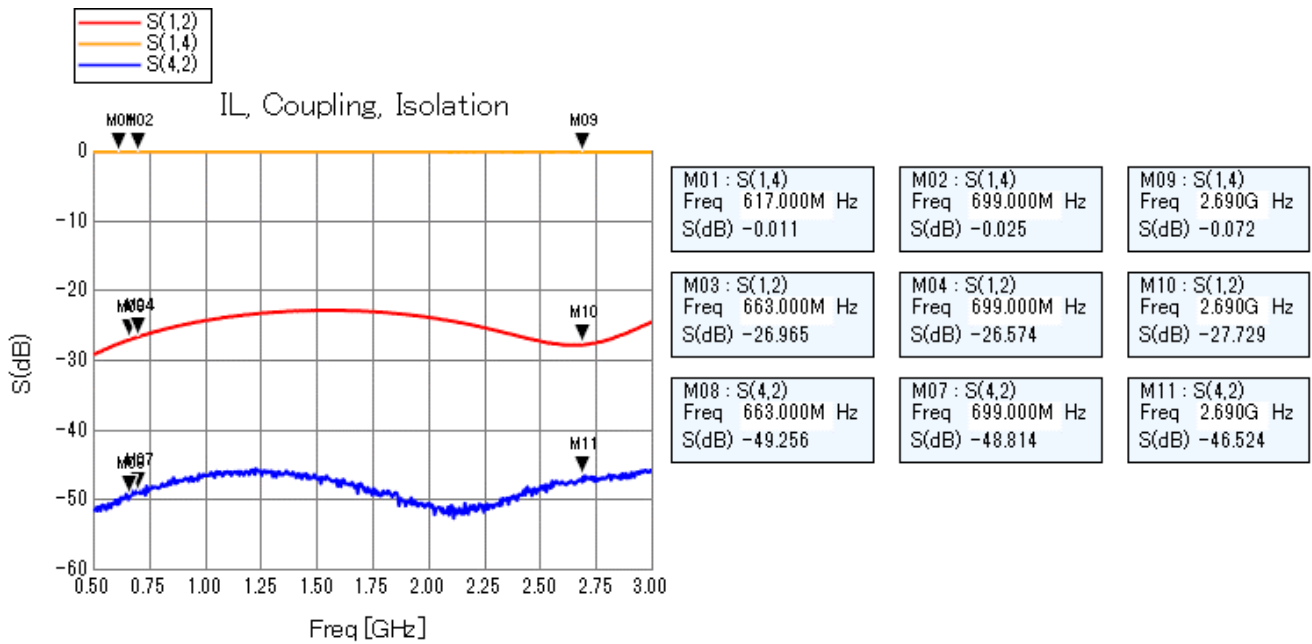
- Land
- Solder resist
- No pattern Solder resist
- Through Hole φ 0.30

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

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	IN(P4)	(4)	Termination Port(P2)
(2)	GND	(5)	GND
(3)	OUT(P3)	(6)	Coupling(P1)

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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
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.
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- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Disaster prevention / crime prevention equipment.

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