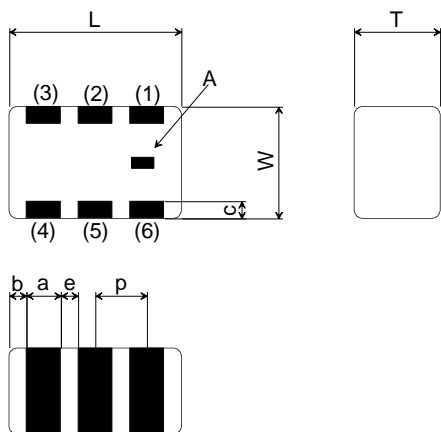


DIRECTIONAL COUPLER

1. Characteristics (at -40 ~ +85 °C)

Part Number	LDJ18829M24AG010		
Frequency Range (MHz)	f1	698.00 ~ 960.00 MHz	
	f2	1427.90 ~ 2170.00 MHz	
	f3	2300.00 ~ 2690.00 MHz	
Insertion Loss (dB)	f1	0.20 max. at 25 °C 0.23 max. at -40~ +85 °C	
	f2	0.22 max. at 25 °C 0.25 max. at -40~ +85 °C	
	f3	0.25 max. at 25 °C 0.28 max. at -40~ +85 °C	
Coupling Value (dB)	698.00 MHz ~ 915.00 MHz	23.5 min.	27.5 max.
	1427.90 MHz ~ 2025.00 MHz	21.5 min.	26.5 max.
	2300.00 MHz ~ 2620.00 MHz	22.5 min.	27.5 max.
	2620.00 MHz ~ 2645.00 MHz	23.5 min.	27.5 max.
Directivity (dB) in f1,f2, f3	f1	18.0 min.	
	f2	19.0 min.	
	f3	14.0 min.	
Isolation (dB) in f1,f2, f3	f1	41.0 min.	
	f2	40.5 min.	
	f3	36.5 min.	
V.S.W.R.	2.0 max.		
Characteristics Impedance	50 Ω (Nominal)		
Power Capacity	3W max. (50 Ω Load)		

2. Construction, Dimensions & Marking



(in mm)

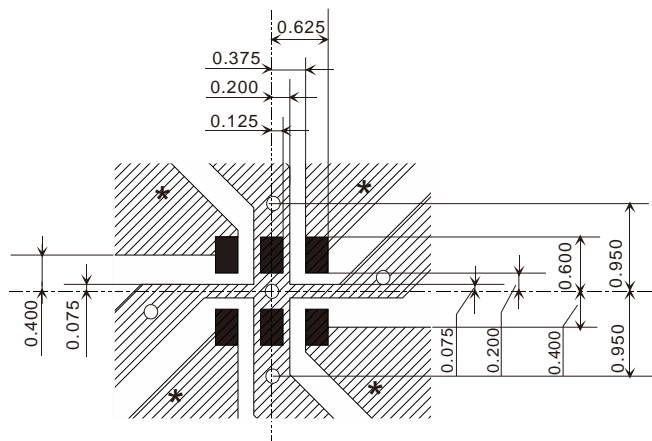
Mark	Meaning
A	Directional Input Mark

Mark	Dimension	Mark	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

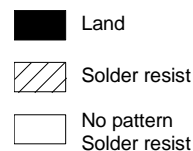
TERMINAL CONFIGURATION

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

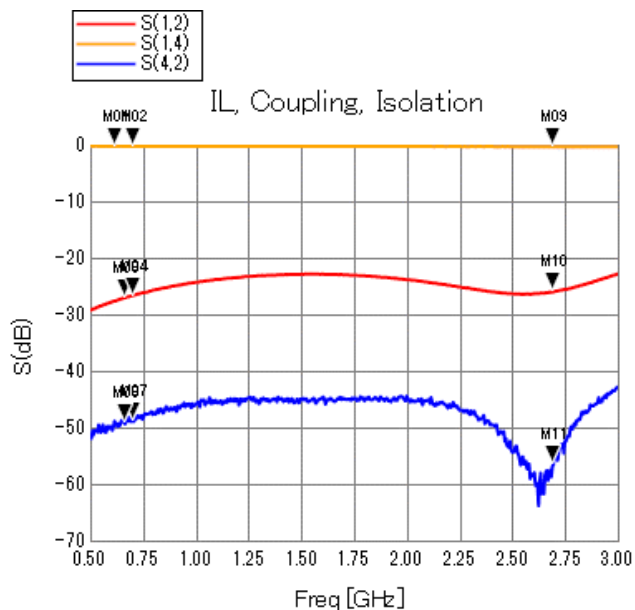
3. Land Pattern



(in mm)



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



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- 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.).
- Disaster prevention / crime prevention equipment.

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