

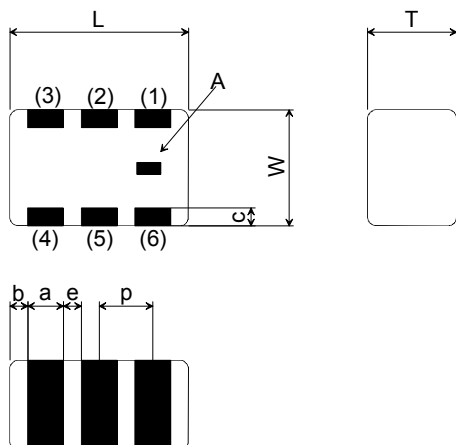
**DIRECTIONAL COUPLER (Preliminary)**

## 1. Characteristics (at -40 ~ +85 °C)

Part Number	LDJ18829M24AC002		
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	0.23 max.	
	f2	0.25 max.	
	f3	0.28 max.	
Coupling Value (dB) P 4-P1	698.00 MHz ~ 915.00 MHz	23.0 min.	27.0 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.
Directivity (dB) in f1, f2, f3	20.0 min.		
V.S.W.R.	1.45 max.		
Characteristics Impedance	50 Ω (Nominal)		
Power Capacity	3W max. (50 Ω Load)		

## 2. Construction, Dimensions & Marking

## 3. Land Pattern



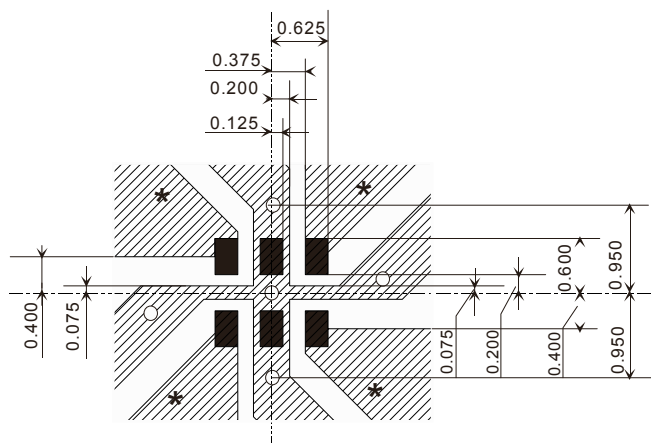
(in mm)

Mark	Meaning
A	Directional Input Mark

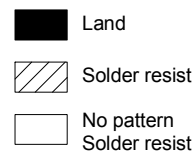
Mark	Dimension	Mark	Dimension
L	$1.6 \pm 0.1$	b	$0.20 \pm 0.15$
W	$0.8 \pm 0.1$	c	$0.15 \pm 0.10$
T	0.7 max.	e	$0.3 \pm 0.1$
a	$0.2 \pm 0.1$	p	$0.50 \pm 0.05$

### 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)



(in mm)



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

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- 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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