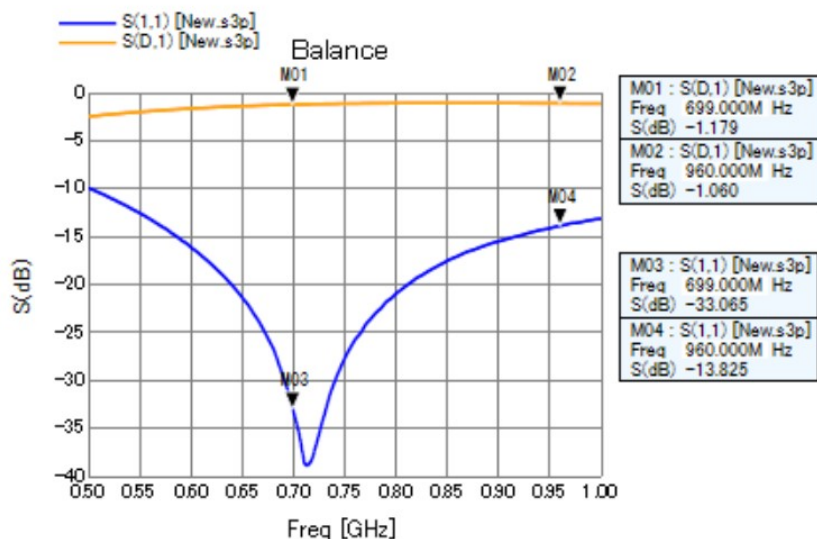


BALUN (Preliminary)

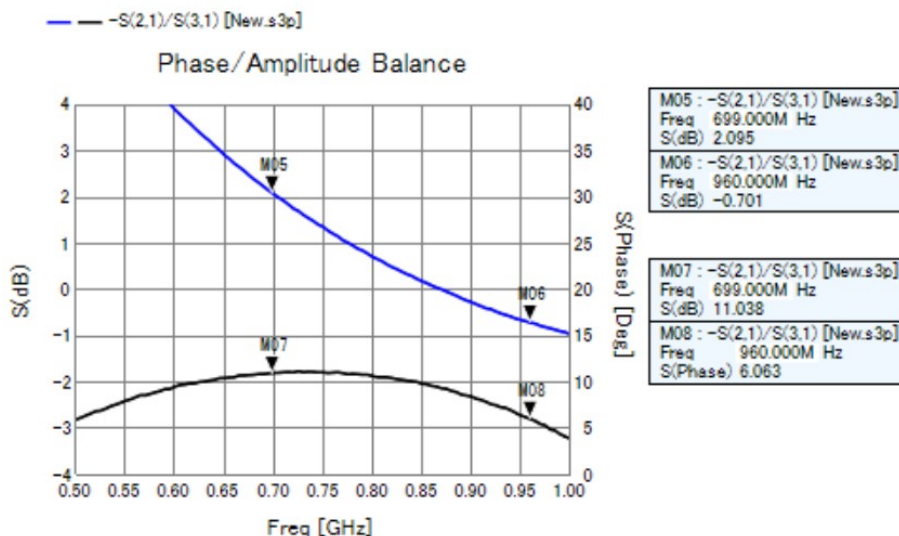
1. Characteristics (-40°C ~ +85°C)

Part Number	LDB15829AAD1A030
Frequency Range (BW)	699.00-960.00 MHz
Insertion Loss in BW	1.35 dB max.at 25°C 1.45 dB max.at -40~+85°C
Unbalance Port Impedance	50 Ω (Nominal)
Balance Impedance (differential)	50 Ω (Nominal)
Unbalance Port R.L in BW	8.54 dB min.
Amplitude Balance	0.00±2.85 dB
Phase Differential	180.0±17.0 deg
Power Capacity	0.5 W max.

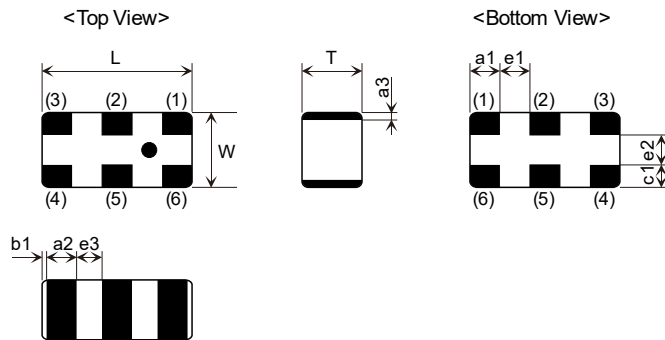
[Insertion Loss/ RL at unbalance port]



[Amplitude Balance / Phase Differential]



2. Construction, Dimensions & Marking



(in mm)

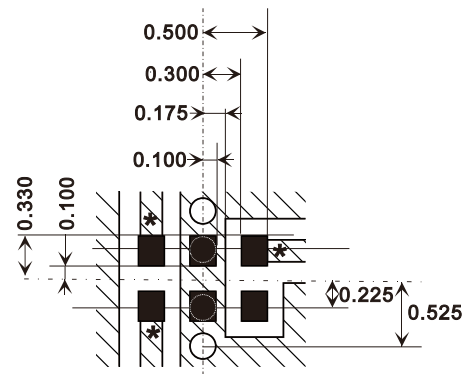
Mark	Meaning
A	Directional Input Mark

Mark	Dimension	Mark	Dimension
L	1.00 ± 0.05	b1	$0.00 + 0.05 / - 0.00$
W	0.50 ± 0.05	c1	0.15 ± 0.10
T	0.40max.	e1	0.20 ± 0.10
a1	0.20 ± 0.10	e2	0.20 ± 0.10
a2	0.20 ± 0.10	e3	0.20 ± 0.10
a3	$0.00 + 0.15 / - 0.00$	-	-

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	Unbalance Port	(4)	Balance Port
(2)	GND	(5)	DC Feed or RF GND
(3)	Balance Port	(6)	NC

3. Land Pattern



(in mm)

- Land
- Solder resist
- No pattern
- Solder resist
- Through Hole $\phi 0.30$

*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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