

This delay line has been developed by utilizing advanced multilayer technology. It is comprised of a copper line and temperature compensated dielectric NPO ($0 \pm 60\text{ppm}/^\circ\text{C}$) and includes a metal shield. This results in a very small device that is compatible with high frequency applications and SMD chip processing.

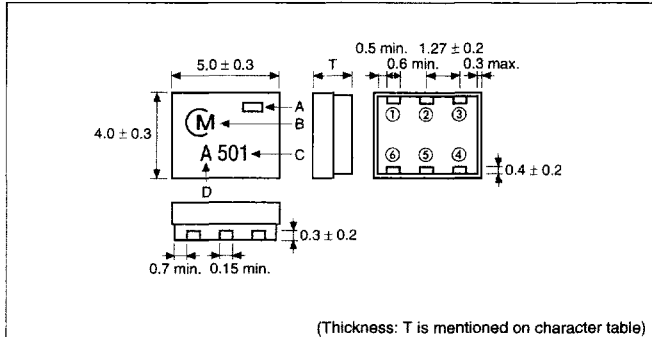
APPLICATIONS

- Optical Network Interface
- Super Computer/Workstations

FEATURES

- Multilayer construction results in a small, thin and light package
- Metal shield is built inside chip
- Reflow solderable
- Supplied on tape and reel

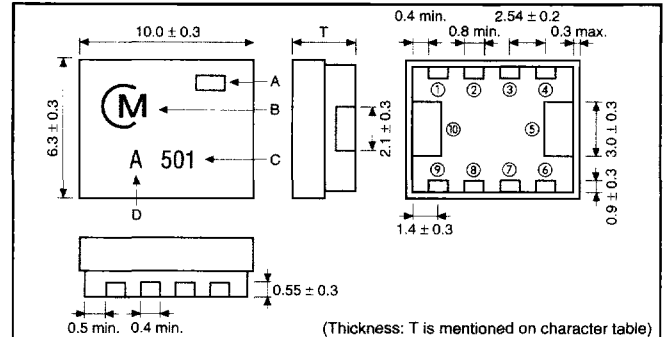
LDH33 Type



(Thickness: T is mentioned on character table)

Code	Description	Code	Description
A	Mark of Input Terminal	C	Delay Time (nominal value)
B	Symbol Marking	D	Impedance Code

LDH46 Type



(Thickness: T is mentioned on character table)

Code	Description	Code	Description
A	Mark of Input Terminal	C	Delay Time (nominal value)
B	Symbol Marking	D	Impedance Code

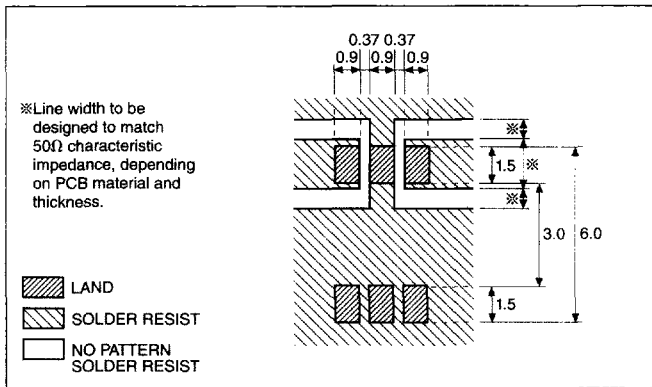
TERMINALS: LDH33 Type

Terminal No.	Function	Terminal No.	Function
①	IN/OUT	④	GROUND
②	GROUND	⑤	GROUND
③	IN/OUT	⑥	GROUND

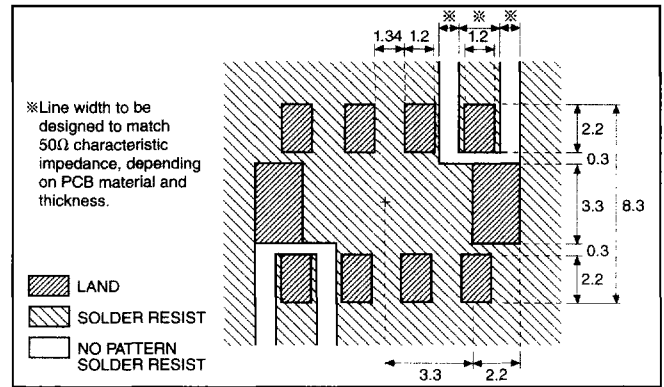
TERMINALS: LDH46 Type

Terminal No.	Function	Terminal No.	Function
①	IN/OUT	⑤	GROUND
②	GROUND	⑥	IN/OUT
③	GROUND	⑦	GROUND
④	GROUND	⑧	GROUND
⑨	GROUND	⑩	GROUND

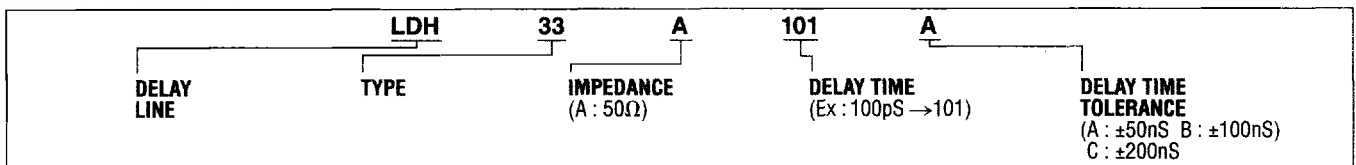
**LDH33 TYPE
STANDARD LAND DIMENSIONS: mm**



**LDH46 TYPE
STANDARD LAND DIMENSIONS: mm**



PART NUMBERING



MONOLITHIC DEVICES

ELECTRICAL CHARACTER & THICKNESS TABLE – LDH33/LDH46

Part Number	Delay Time (ns)	Thickness (mm) max.	Impedance ¹ (Ω)	Rising Time (ns) max.	Insulation Resistance (MΩ) min.	Rated Current (mA)	Operating Temperature Range (°C)					
LDH33 TYPE												
LDH33A101A	0.1 ± 0.05	1.1	50 ± 7	0.15	100	50	-25 to +85					
LDH33A201A	0.2 ± 0.05											
LDH33A301A	0.3 ± 0.05											
LDH33A401A	0.4 ± 0.05											
LDH33A501A	0.5 ± 0.05											
LDH33A601B	0.6 ± 0.1											
LDH33A701B	0.7 ± 0.1	1.5	50 ± 7	0.3	100	50	-25 to +85					
LDH33A801B	0.8 ± 0.1											
LDH33A901B	0.9 ± 0.1											
LDH33A102B	1.0 ± 0.1	1.6	50 ± 7	0.5				100	50	-25 to +85		
LDH33A152B	1.5 ± 0.1	2.1										
LDH33A202B	2.0 ± 0.1	2.6										
LDH33A252B	2.5 ± 0.1	3.1										
LDH46 TYPE												
LDH46A302B	3.0 ± 0.1	3.1	50 ± 10	0.25 x DT ²	100	100	-25 to +85					
LDH46A402B	4.0 ± 0.1											
LDH46A502B	5.0 ± 0.1											
LDH46A602C	6.0 ± 0.2	3.1										
LDH46A702C	7.0 ± 0.2	3.7						50 ± 10	0.25 x DT ²	100	100	-25 to +85
LDH46A802C	8.0 ± 0.2											
LDH46A902C	9.0 ± 0.2											
LDH46A103C	10.0 ± 0.2											

¹Impedance is measured at 100MHz.

²DT stands for Delay Time.

TYPICAL RESPONSE CHARACTERISTICS

