

CL1L, CL2L series, surface-mount thin film delay lines

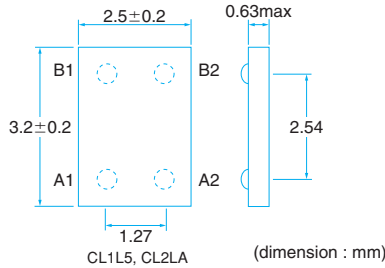


This series permits ultra-precision timing adjustment from 20 to 200 picoseconds with accuracy of \pm picoseconds for ultrahigh-speed signal processing applications.
Differential delay line:CL2L

RoHS compliant Completely lead free

SPECIFICATIONS

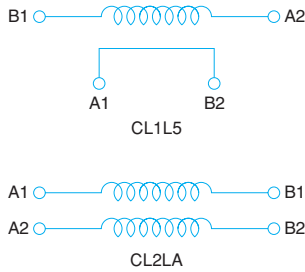
Mechanical



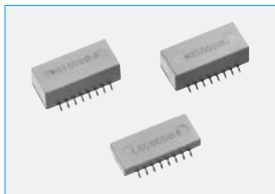
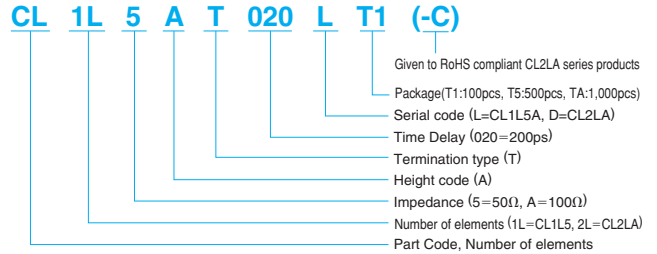
Electrical

Type	CL1L5	CL2LA
Time Delay	40~220ps(20ps step)	
Time Delay Tolerance	$\pm 10\%$	
Temp. coefficient of Td	$\pm 100 \text{ ppm}/^\circ\text{C}$	
Characteristic Impedance	$50\Omega \pm 10\%$	$100\Omega \pm 10\%$
DC Resistance	0.3 Ω (100ps or less) 3.0 Ω /ns max (100ps or more)	1.0 Ω Max.
Insertion loss	0.5dB or less (at 0.75GHz) 0.5dB or less (at 1.0GHz)	
Rated Current	100mA	
Rated Current	-40 $^\circ\text{C}$ ~85 $^\circ\text{C}$	

Equivalent circuit



PART NUMBER



GL1L/GL2L series, SOP (small outline package) thin film differential delay lines

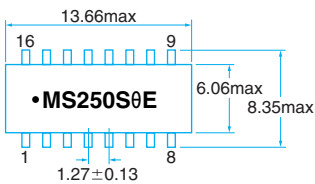


These delay lines offer the same excellent frequency performance as SIP delay lines but come in a gullwinged surface mount package. The differential SMT is useful for PECL application, and contains two identical transmission lines matched for the time delay. Featuring a stripline shielded construction, these parts offer very low EMI/RFI, and are ideal for high frequency/tight tolerance timing and deskew applications.

RoHS compliant

SPECIFICATIONS

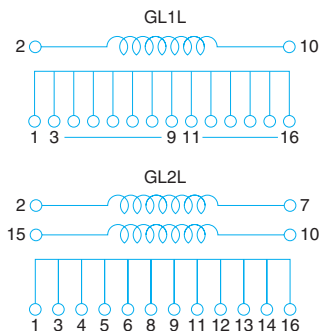
Mechanical



Electrical

Type	GL1L	GL2L
Time Delay	0.1~5.0ns(0.1ns step)	0.1~3.0ns(0.1ns step) 3.5~4.5ns(0.5ns step)
Time Delay Tolerance	$\pm 0.05 \text{ ns}$	$\pm 0.05 \text{ ns}$ (0.1~2.9ns) -0.5/+0.1ns(3.0ns) $\pm 0.1 \text{ ns}$ (3.5~4.5ns)
Temp. coefficient of Td	0~150ppm/ $^\circ\text{C}$	
Characteristic Impedance	50 $\pm 5\Omega$	
Rise/fall time	200ps/ns	
Rated Current	100mA	
Characteristic Impedance	-25~85 $^\circ\text{C}$	

Equivalent circuit



PART NUMBER

