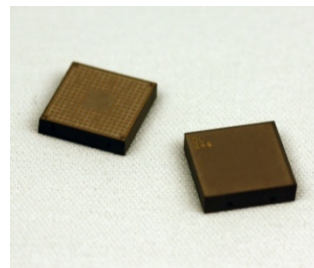


DL246A

The DL246A is a cost effective and compact integrated delay line. Using Cu-LTCC Technology, the DL246A was designed to optimize the performance of the Scintera family of RF Adaptive Linearization Integrated Circuits. The versatile design integrates 2 delay lines, the first a nominal 2nS delay and the second a nominal 4nS. These 2 circuits can be combined for an overall delay of 6nS.



Key Features:

- Versatile design yields 3 separate nominal delay paths (2nS, 4nS & 6nS)
- Compact - 12mm x 12mm
- Surface Mount
- Optimized to work with the RFPAL family of products from Scintera
- Characterized over the operating frequency 500MHz to 3000MHz
- RoHS Compliant
- Part #DL246ATR comes packaged on 7" Tape & Reel

Absolute Maximum Ratings:

Parameters	Symbol	Value	Units
Storage Temperature	Tstg	-65 to 150	°C
Maximum Operating Temperature	Tmax	-40 to 85	°C

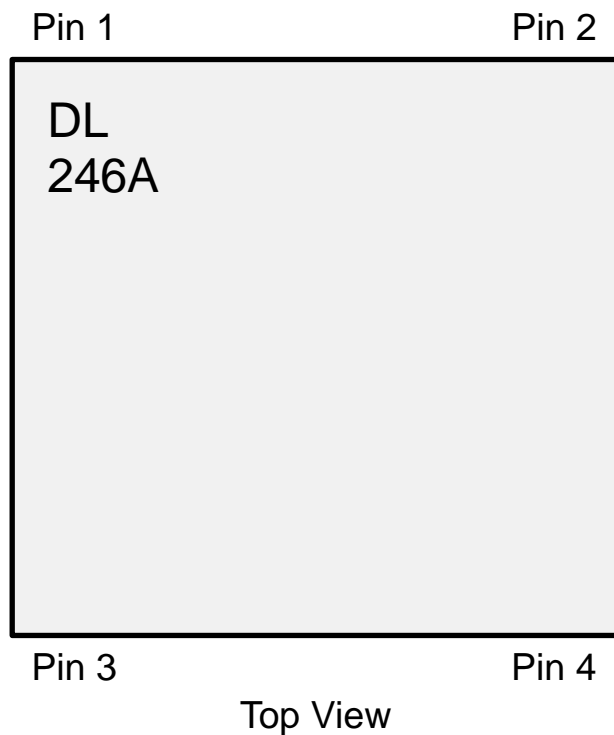
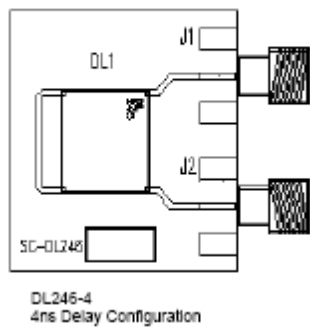
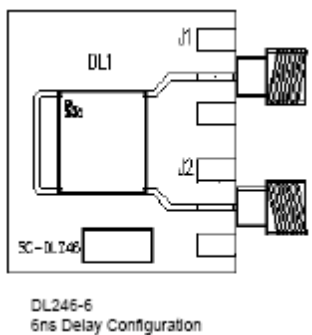
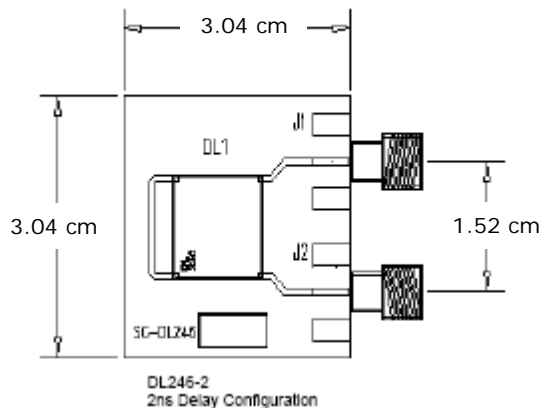
Electrical Specifications: (at room temperature)

Testing Item	Test Constraints	Min	Nom	Max	Unit
Delay	Pin 3 to Pin 4; 500 MHz to 3000 MHz	1.6	2.0	2.6	nS
Insertion Loss	Pin 3 to Pin 4; 700 MHz		1.3	2.1	dB
Insertion Loss	Pin 3 to Pin 4; 2800 MHz		2.3	3.3	dB
Return Loss	Pin 3 to Pin 4; 500 MHz to 3000 MHz	-9			dB
Delay	Pin 1 to Pin 2; 500 MHz to 3000 MHz	3.3	4.0	4.6	nS
Insertion Loss	Pin 1 to Pin 2; 700 MHz		2.4	3.1	dB
Insertion Loss	Pin 1 to Pin 2; 2700 MHz		4.3	6.1	dB
Return Loss	Pin 1 to Pin 2; 500 MHz to 3000 MHz	-9			dB
Delay	Pin 2 to Pin 4; 500 MHz to 3000 MHz	4.0	6.0	7.2	nS
Insertion Loss	Pin 2 to Pin 4; 700 MHz		3.8	5.2	dB
Insertion Loss	Pin 2 to Pin 4; 2800 MHz		6.8	9.4	dB
Return Loss	Pin 2 to Pin 4; 500 MHz to 3000 MHz	-9			dB

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 Or visit www.richardsonrfpd.com. See important product notice on last page of this document.

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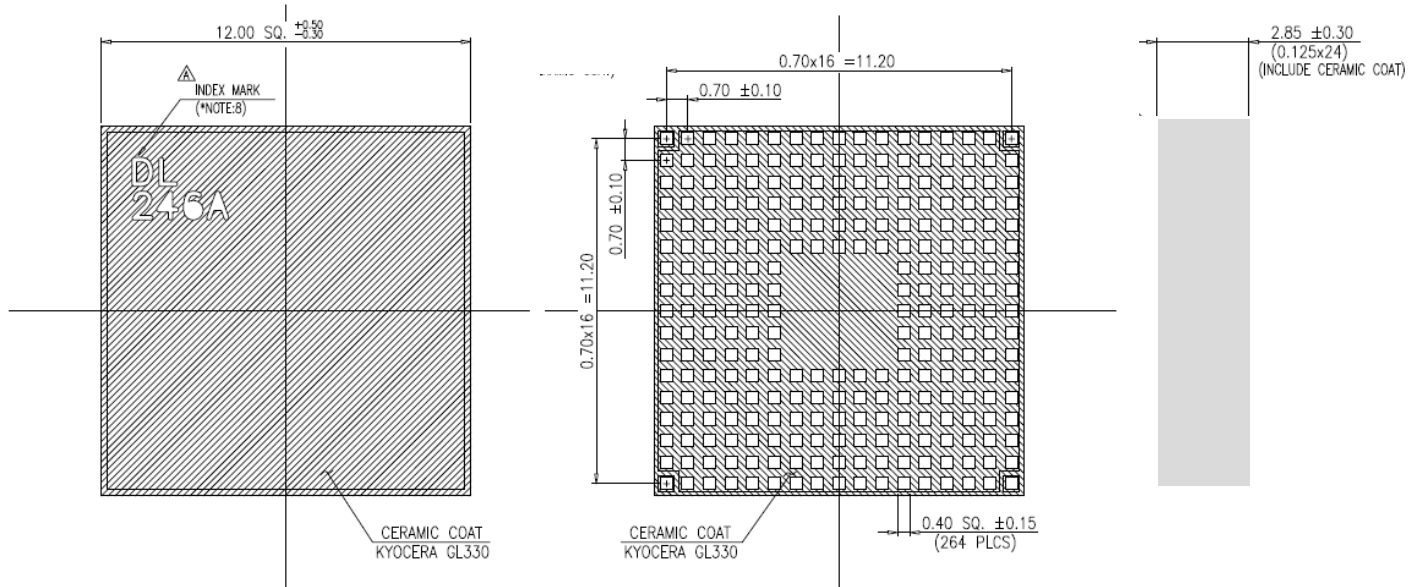
Mounting Orientations: (note pin 1 location)



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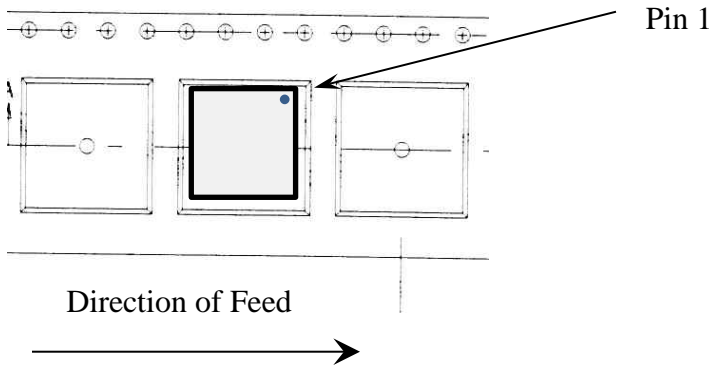
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Mechanical Dimensions:



Tape & Reel Information:

24mm



Ordering Information

Part Number	DL246A DL246ATR
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