

**DL-DC6G-7-5** is a single channel delay line, which is programmable, designed for adjusting the time delay or phase of radio, microwave or even digital signals with bandwidths from DC to 6 GHz.

Features:

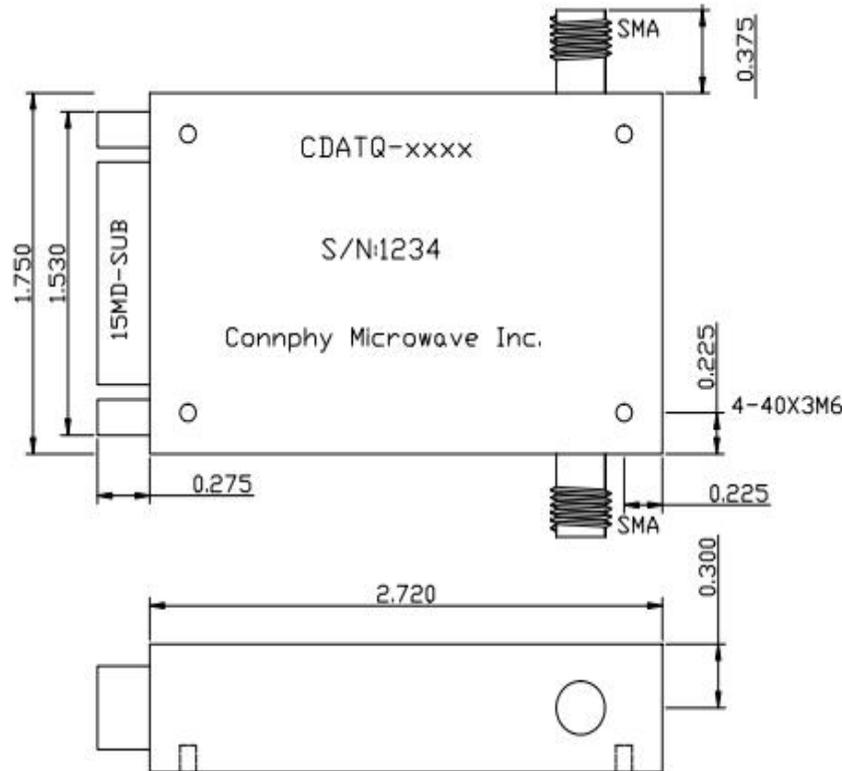
frequency range: DC~6G;

Step size option: 5ps, 10ps, or 20ps; XX-XX-5 for 5ps step size;

7 bits range;

Time or phase shifting, with very compact size

### Mechanical Outline(Inch):



### Environmental Ratings:

Temperature: -25°C to +80 °C Operating  
 -65 °C to +100 °C Non-Operating  
 Vibration: MIL-STD-810F, Method 514.5 Cond. B  
 Altitude: MIL-STD-202F, Method 105C Cond. B  
 Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

### Specifications:

Bandwidth(4dB): 6 GHz  
 Step size(ps): 5, 10, 20 optional,  
 eg: DL-DC6G-7-5 for 5ps step size  
 Accuracy: 1 LSB  
 VSWR max: 1.3 for DC to 5 GHz  
 1.5 for 5 to 6 GHz  
 Insertion loss: <7.0 dB DC to 5 GHz  
 <8 dB 5 to 6 GHz  
 Linearity: +0.3 dB DC to 3 GHz  
 +0.4dB 3 to 4 GHz  
 +0.7dB 5 to 6 GHz  
 Dispersion (1-4GHz): -0.0007 x (total delay)  
 Insertion delay: 0.5 ns  
 Control data latch setup time: 1.5 ns  
 Control data latch hold time: 4.5 ns  
 Control propagation delay : 9 ns Max  
 Delay-state switch time: 80 ns  
 Input power: 20 dBm

Delay Line DL-DC6G-7-5			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 15/03/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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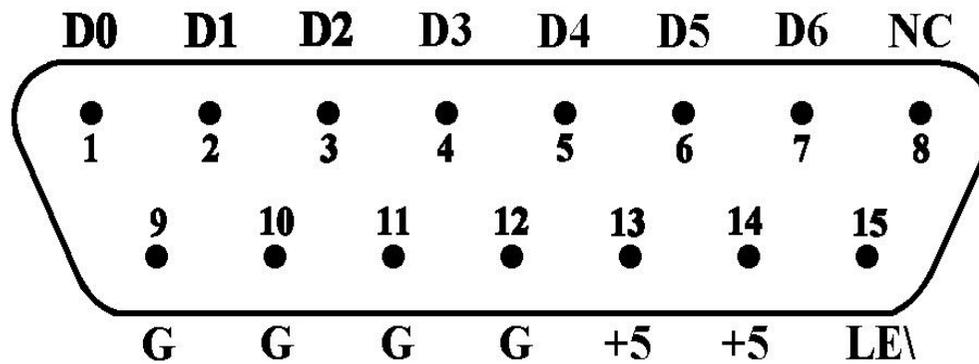
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### Pin Definition:



- 1-7 DO - D6 data, active high
- 8 DNC
- 9-12 Ground
- 13-14 +5.0V Power
- 15 LE Latch line, active low

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