



Delay Line

Description:

The XDL09-9-224S is a surface mount delay line that uses a slow wave coupling structure that maximizes the amount of delay per unit area over other distributed delay structures. The XDL09-9-224S can be used in amplifier linearization applications from 855 – 894 MHz. The XDL09-9-224S is ideal for the delay element required in the main loop of feed forward amplifiers. The Xinger® delay lines are a low cost, high quality alternative to the traditional coaxial and filter solutions presently available. Parts have been subjected to rigorous qualification testing and units are 100% tested. Produced with 6 of 6 RoHS compliant tin immersion

Features:

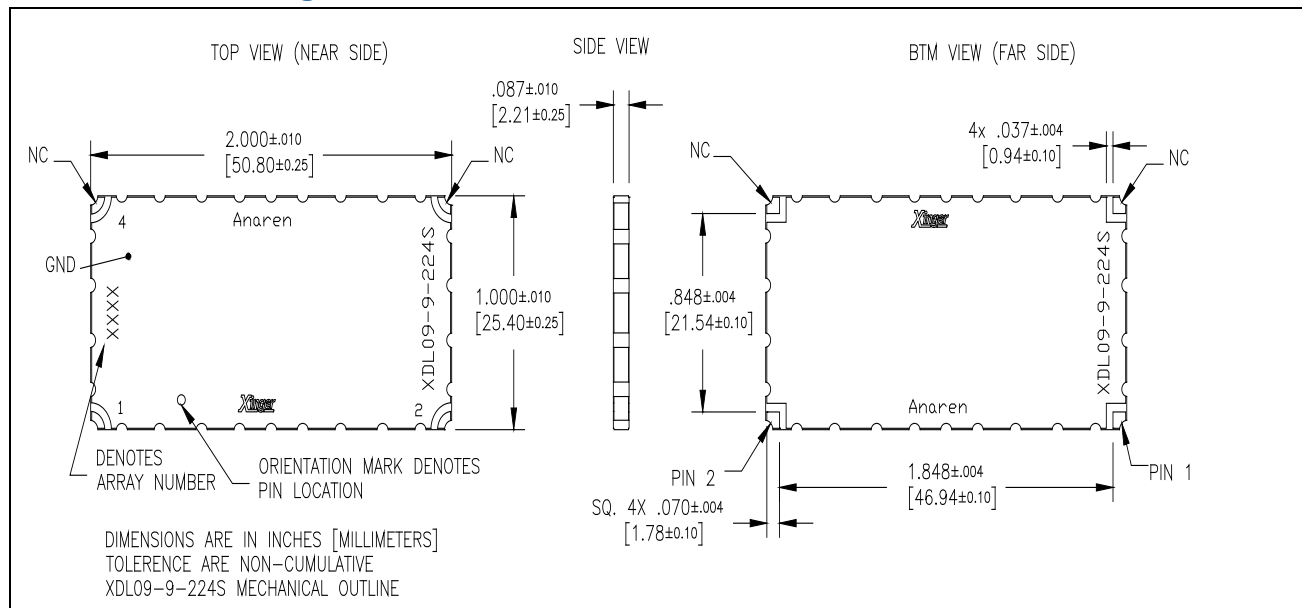
- Production Friendly
- Consistent Delay
- Stable over Temperature
- Surface Mountable
- Available in Tape & Reel
- Non-Lead Solder Paste Compatible
- 100% Tested
- Lead Free

Electrical Specifications:

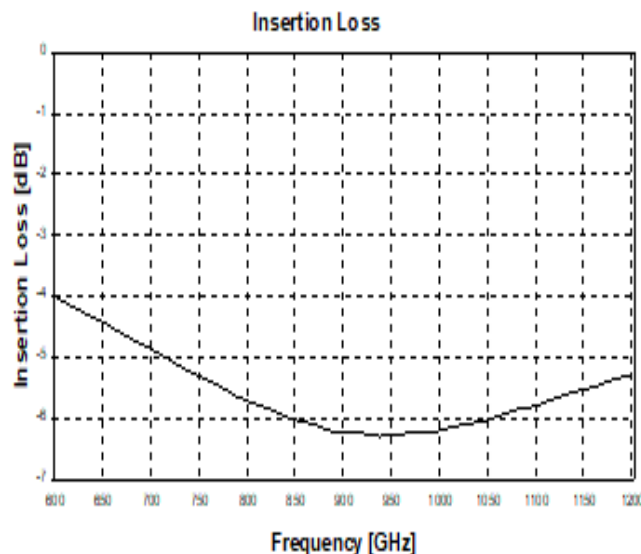
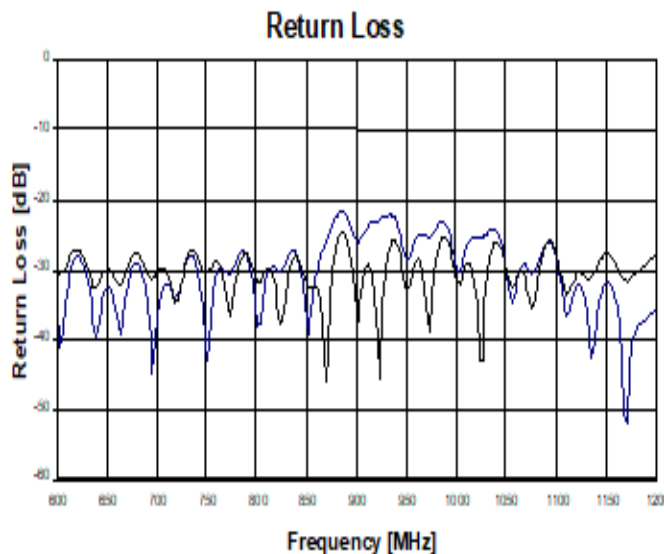
Frequency (MHz.)	855-894 GSM Band
Mean Delay (nS)	22.6 ± 0.30
Deviation from Linear Phase (Degrees Max)	± 2.00
Amplitude Flatness Every 15 MHz (dB p-p)	0.15
Return Loss (dB min)	20
Insertion Loss (dB)	7.2 ± 1.0
Power Handling (Watts)	1

Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice

Mechanical Drawing:



Typical Performance:



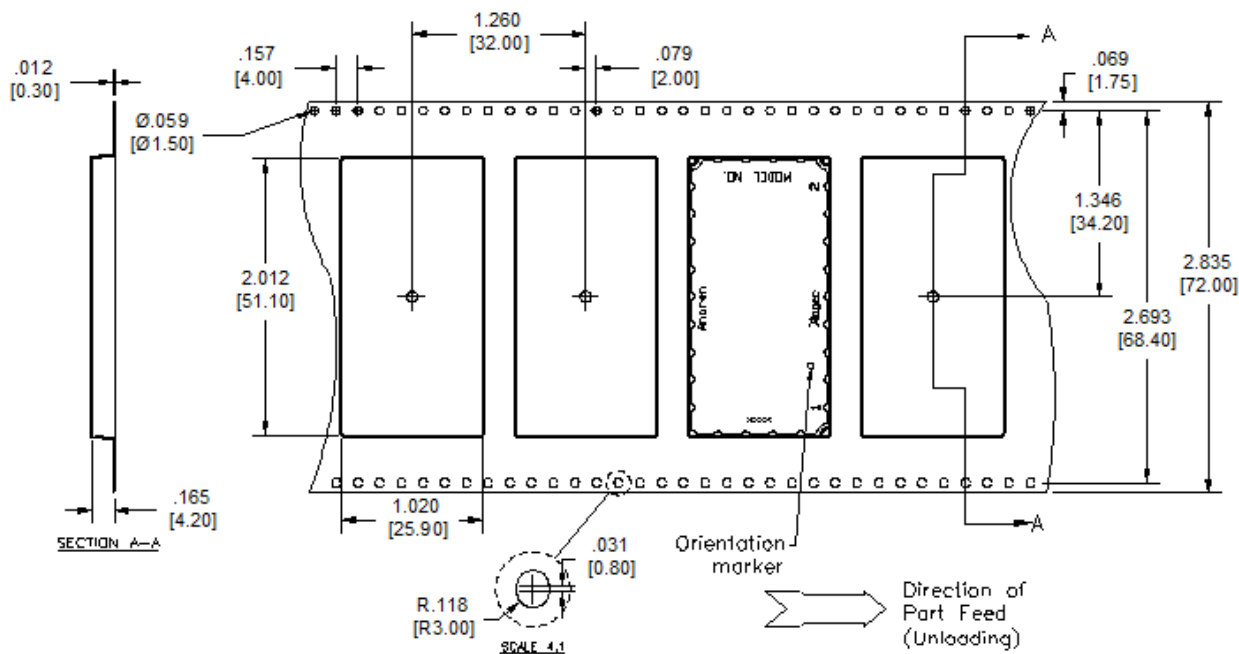
Average Delay

The average delay is defined as the group delay of the input signal through the delay line. The lot-to-lot variation is reflected in the plus/minus tolerance given in specifications.

Refer to TTM Application Note AAN-232 for further information on Xinger delay lines.

Packaging and Ordering Information:

Parts are oriented in tape as shown below



Contact us:
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Mouser Electronics

Authorized Distributor

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