

## Delay Line

**Xinger**



### Description:

The XDL15-2-020S can be used in amplifier linearization applications from 112 – 3800Mhz. Small form factor of XDL15-2-020S is ideal for cascading to obtain longer delay. 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 finish.

### Electrical Specifications:

#### Features:

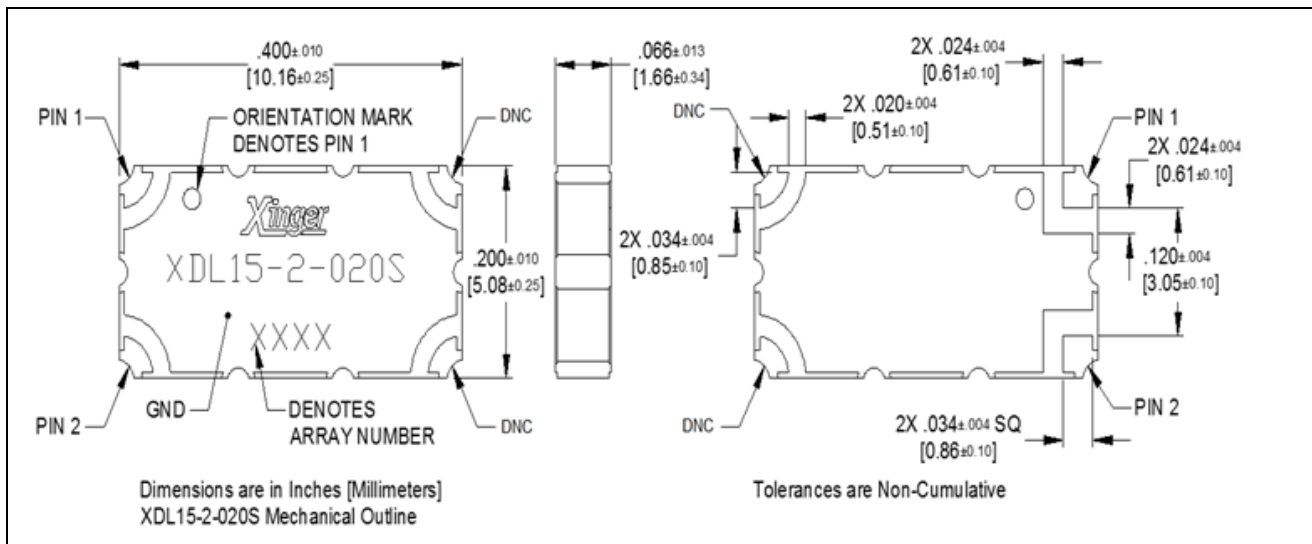
- Production Friendly
- Consistent Delay
- Stable Over Temperature
- Surface Mountable
- Available in Tape & Reel
- Non-Lead Solder Paste Compatible
- Lead Free
- 100% Tested
- MSL1

Frequency (MHz)	Return Loss (dB) (min)	Insertion Loss (dB/ns) (max)	Group Delay (nS)	Amplitude Flatness (dB max per 50 Mhz)	Operating Temp. °C	Power Handling Watts
112 -168	-20	-0.26	1.93 ± 0.08	0.10	-55 to +85	1
300 -2000	-17	-0.90	2.01 ± 0.17	0.10	-55 to +85	1
2000-2700	-14	-1.10	2.20 ± 0.20	0.10	-55 to +85	1
2700-3800	-14	-1.30	2.20± 0.20	0.10	-55 to +85	1

\* Specification based on performance of unit properly installed on TTM Test Board 66111-0001

\* Specifications subject to change without notice. Refer to parameter definitions for details

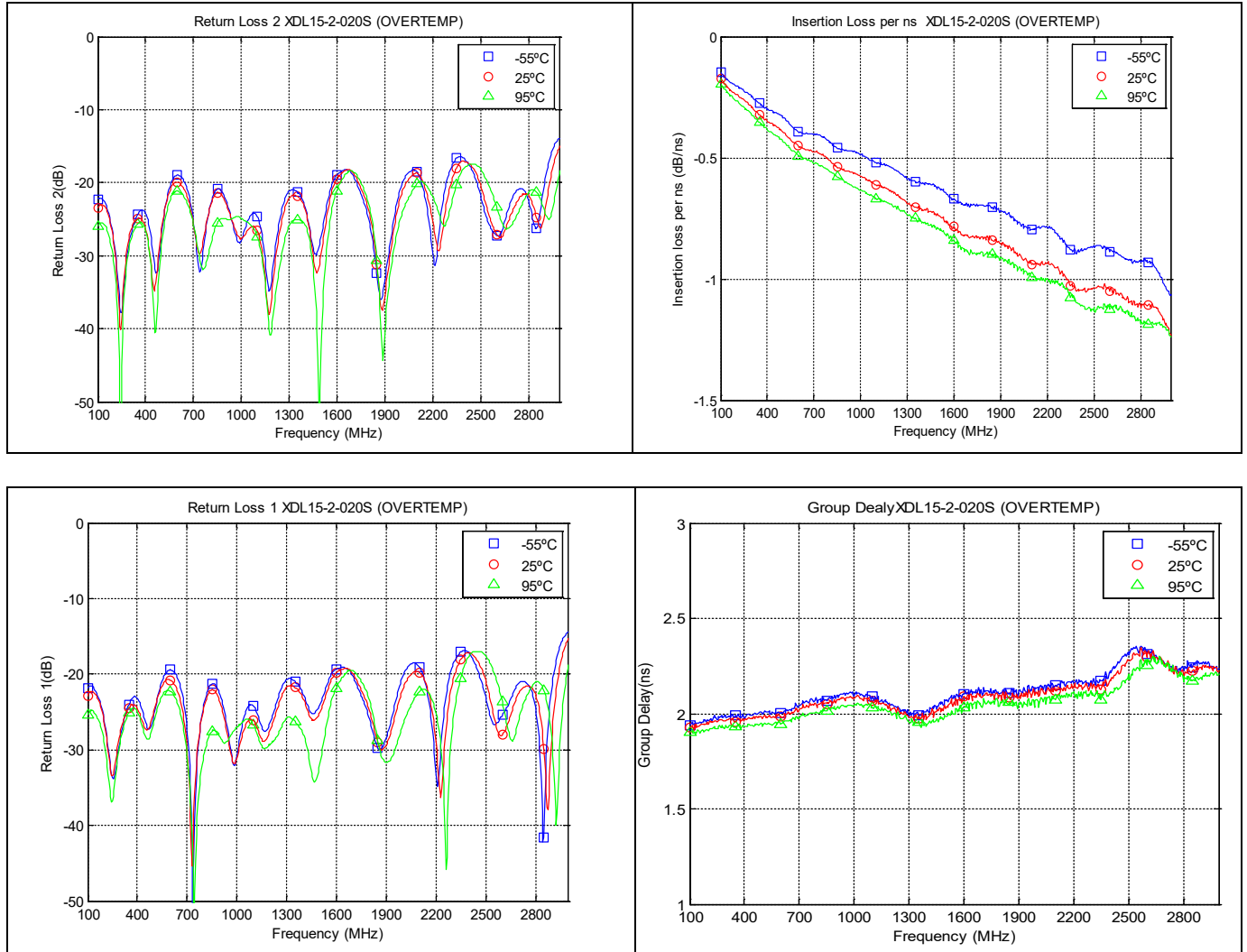
### Mechanical Outline:



## PIN CONFIGURATION

Pin 1	Pin 2	Pin 3	Pin 4
Input	Output	DNC- Do not connect, Do not ground	DNC- Do not connect, Do not ground
Output	Input	DNC- Do not connect, Do not ground	DNC- Do not connect, Do not ground

## Typical Performance: 100 MHz to 3000 MHz



## CASCADING XDL15-2-020S

If more than 2ns delay is needed, cascading XDL15-2-020S can provide group delay of 4ns, 6ns and 8ns. Please refer to the app-note for the recommend mounting footprint for cascading the delay. Gap of 2mm between the cascaded parts is needed with solder mask in between.

### Packaging and Ordering Information:

Parts are available in a reel and as loose parts in a bag. Packaging follows EIA 481-2 for reels. Parts are oriented in tape and reel as shown below. Minimum order quantities are 2000 per reel. See Model Numbers below for further ordering information.

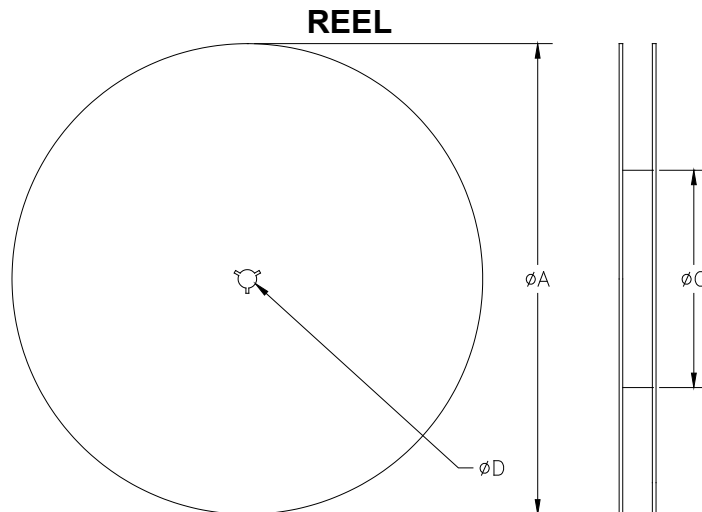
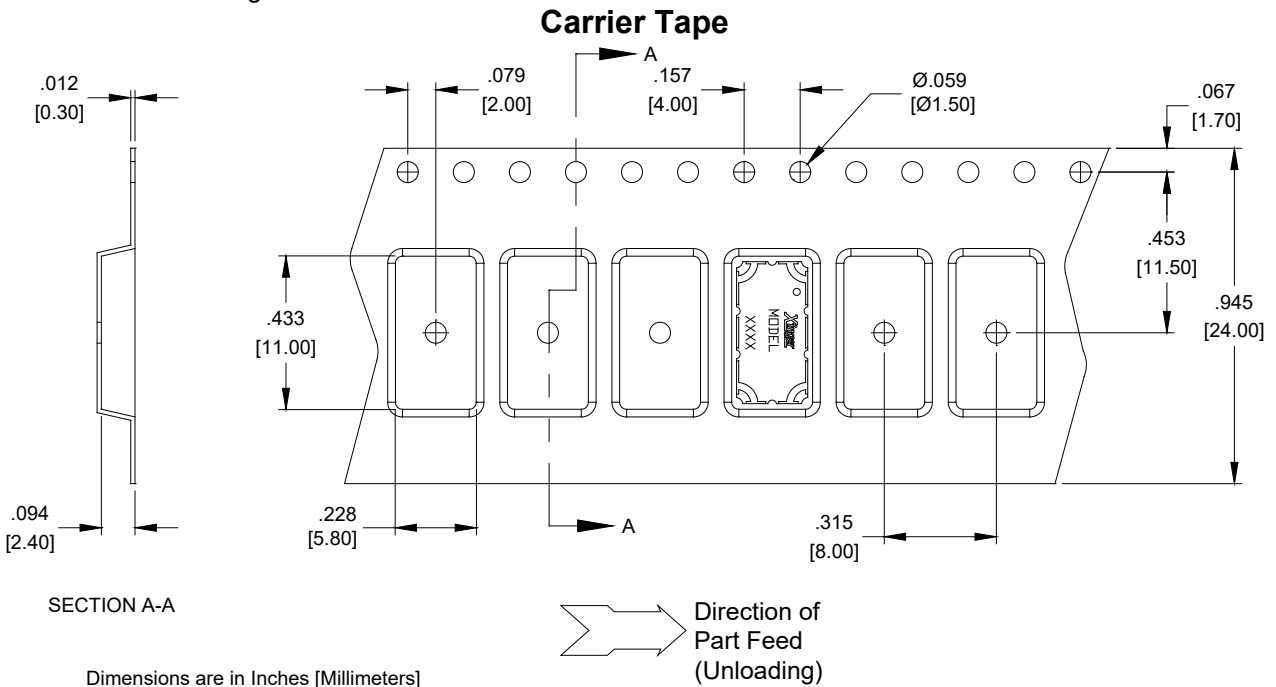


TABLE 1	
REEL DIMENSIONS (inches [mm])	
ØA	12.99 [330.0]
B	.945 [24.0]
ØC	4.017 [102.03]
ØD	0.512 [13.0]

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