

Delay Line



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.

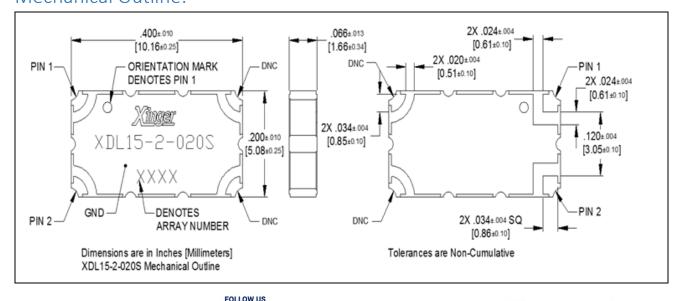
Electrical Specifications:

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 Production Friendly Consistent Delay 	Frequency (MHz)	Return Loss (dB) (min)	Insertion Loss (dB/ns) (max)	Group Delay (nS)	Amplitude Flatness (dB max per 50 Mhz)	Operating Temp. ℃	Power Handling Watts
Stable Over	112 -168	-20	-0.26	1.93 ± 0.08	0.10	-55 to +85	1
Temperature Surface Mountable 	300 -2000	-17	-0.90	2.01 ± 0.17	0.10	-55 to +85	1
 Available in Tape & Reel Non-Lead Solder 	2000- 2700	-14	-1.10	2.20 ± 0.20	0.10	-55 to +85	1
Paste Compatible Lead Free 100% Tested MSL1 	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:



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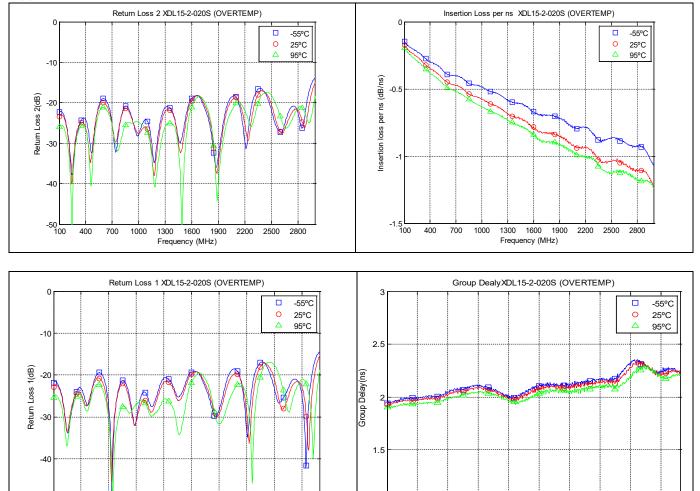
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PIN CONFIGURATION

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

Typical Performance: 100 MHz to 3000 MHz



CASCADING XDL15-2-020S

1000

1300 1600

Frequency (MHz)

1900 2200 2500

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.

2800

100

400

700

1000

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-50 L

400

700

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1300 1600 1900

Frequency (MHz)

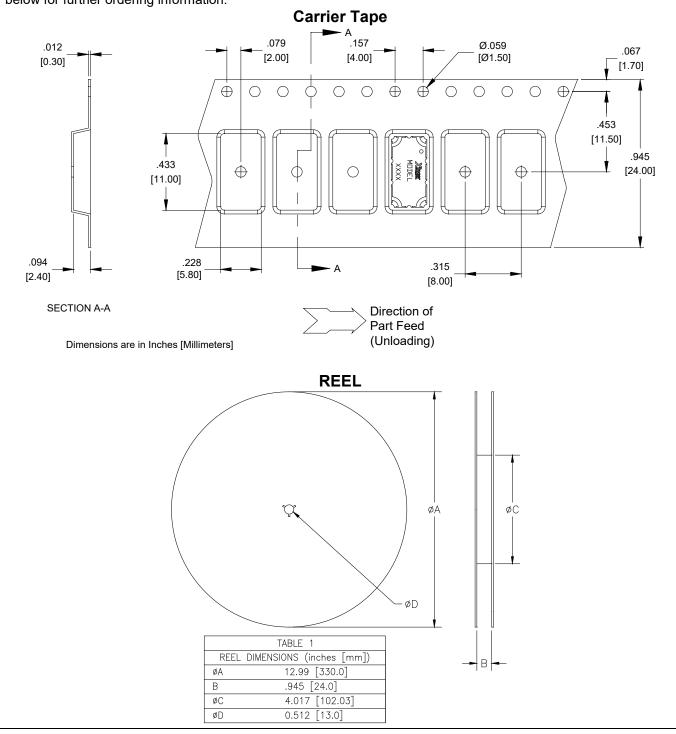
2200

2500 2800



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.



Contact us: rf&s_support@ttm.com

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