

Dispersive Steel Delay Lines



Key Features

- **Frequency Range:** 5 MHz to 65 MHz
- **Delay:** 10 μ Sec to 350 μ Sec
- **Insertion Loss:** 20-45 dB
- **Stability:** 1 ppm/degc
- **Bandwidth:** > 50%
- **Package Size:** Up to 6" X 72"; Dependent on frequency and amount of delay

API Technologies' complete line of pulse compression Dispersive Steel Delay Lines are offered in semi-standard or custom designs to meet unique specifications. Dispersive Steel delay lines can be heated for stability.

Many interface options are offered including SMA (Female and Male), N-Type (Female), TNC (Female), Leaded and SMD. Packaging options include non or hermetically welded and package size is up to 6" x 72".

These delay lines are ideal for applications where high performance and reliability is required. Excellent for usage Real Time Signal processing, Linear & Non-Linear FM generation, Spectral analysis.

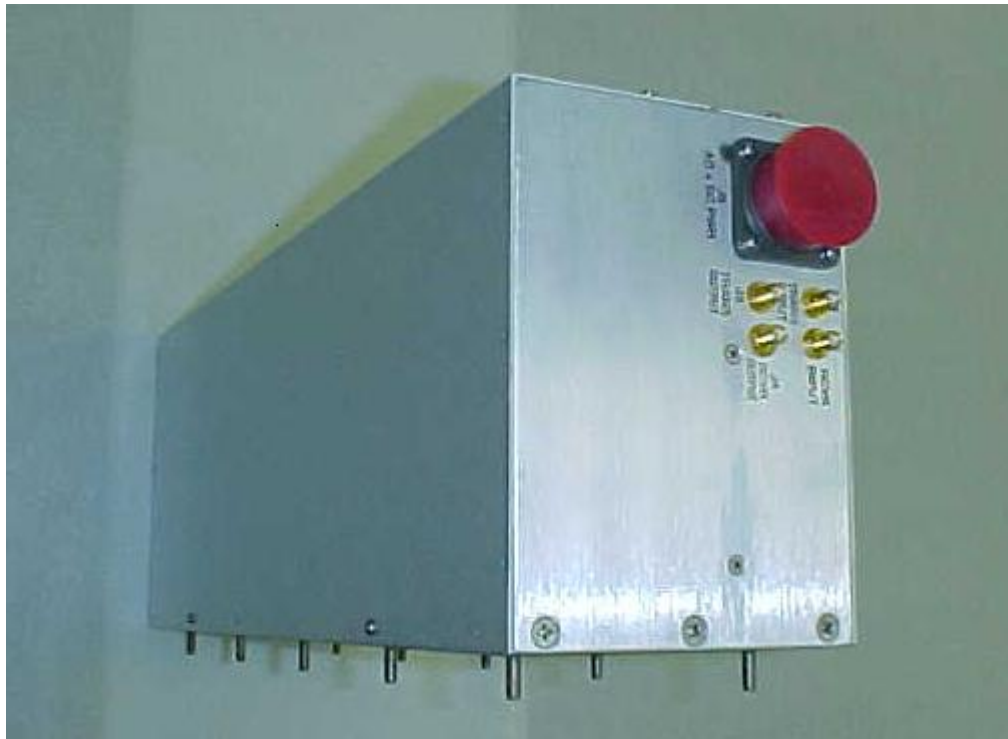
Technical Specifications

Parameter	Unit	Typical	Min/Max
Frequency Range	MHz	20	5-65
Delay	usec	100	10-350
Insertion Loss	dB	30	20-45
Temp Stability	PPM/degC	1	.5-1.5
Bandwidth	%	50	10-75
Spurious	dBc	-60	75
Triple Travel	dB	-60	75
Feed Through	dB	-60	80

Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature(C)	-40 to 90
Operating Temperature(C)	-30 to 80
Input Drive @ 25°C (CW) dBm	+20

* Typical values are measured at 25°C, but not guaranteed.



Outline Drawing

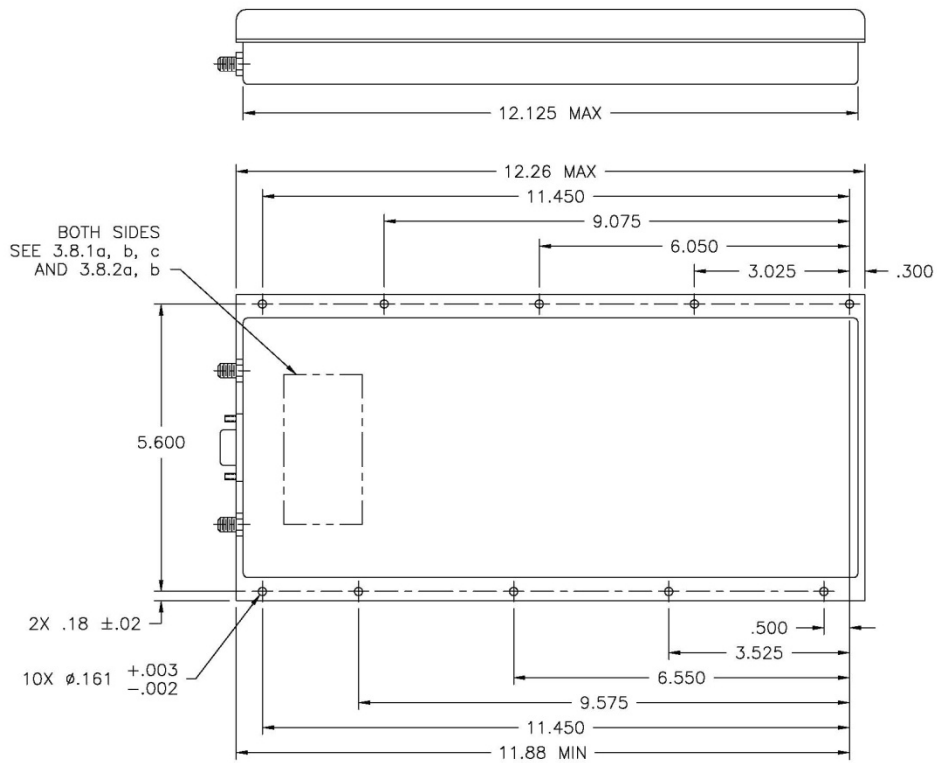


FIGURE 1 – OUTLINE DRAWING