

AMZ & AMY Series Passive 5-Tap DIP/SMD Delay Modules

- Low Profile 8-Pin Package for Surface Mount Applications
- Low Distortion LC Network
- 5 Equal Delay Taps
- Fast Rise Time -- $BW \approx 0.35 / t_r$
- Standard Impedances: 50 - 75 - 100 - 200 Ω
- Stable Delay vs. Temperature: 100 ppm/ $^{\circ}C$
- Operating Temperature Range -55 $^{\circ}C$ to +125 $^{\circ}C$

Operating Specifications - Passive Delay Lines

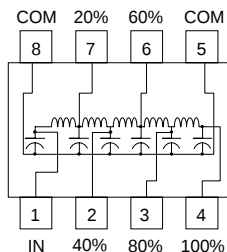
Pulse Overshoot (Pos)	5% to 10%, typical
Pulse Distortion (S)	3% typical
Working Voltage	25 VDC maximum
Dielectric Strength	100VDC minimum
Insulation Resistance	1,000 M Ω min. @ 100VDC
Temperature Coefficient	70 ppm/ $^{\circ}C$, typical
Bandwidth (f_c)	0.35/ t_r approx.
Operating Temperature Range	-55 $^{\circ}$ to +125 $^{\circ}C$
Storage Temperature Range	-65 $^{\circ}$ to +150 $^{\circ}C$

Electrical Specifications at 25 $^{\circ}C$ ^{1, 2, 3} Note: For SMD Package add "G" of "J" as below to P/N in Table

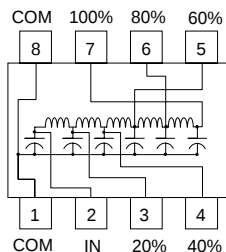
Delay Tolerances		50 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	75 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	100 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	200 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)
Total (ns)	Tap-to-Tap (ns)												
2.5 $\pm$ 0.3	0.5 $\pm$ 0.2	AMZ-2.55	1.5	0.4	AMZ-2.57	1.5	0.6	AMZ-2.51	1.5	0.6	AMZ-2.52	1.5	0.9
5 $\pm$ 0.5	1.0 $\pm$ 0.3	AMZ-5.55	2.0	0.5	AMZ-5.57	2.0	0.6	AMZ-5.51	2.0	0.6	AMZ-5.52	2.0	1.1
6 $\pm$ 0.5	1.2 $\pm$ 0.4	AMZ-6.55	2.3	0.5	AMZ-6.57	2.3	0.6	AMZ-6.51	2.4	0.7	AMZ-6.52	2.6	1.1
7 $\pm$ 0.5	1.4 $\pm$ 0.4	AMZ-7.55	2.6	0.6	AMZ-7.57	2.6	0.6	AMZ-7.51	2.8	0.8	AMZ-7.52	2.8	1.1
7.5 $\pm$ 0.5	1.5 $\pm$ 0.5	AMZ-7.55	2.8	0.6	AMZ-7.57	2.8	0.8	AMZ-7.51	2.9	0.8	AMZ-7.52	2.9	1.4
8 $\pm$ 0.5	1.6 $\pm$ 0.5	AMZ-8.55	3.0	0.6	AMZ-8.57	3.0	0.9	AMZ-8.51	3.0	0.8	AMZ-8.52	3.1	1.4
9 $\pm$ 0.5	1.8 $\pm$ 0.5	AMZ-9.55	3.3	0.7	AMZ-9.57	3.4	0.9	AMZ-9.51	3.4	0.8	AMZ-9.52	3.4	1.4
10 $\pm$ 1.0	2.0 $\pm$ 0.5	AMZ-10.55	3.4	0.7	AMZ-10.57	3.5	0.9	AMZ-10.51	3.6	0.9	AMZ-10.52	3.6	1.6
15 $\pm$ 1.0	3.0 $\pm$ 0.6	AMZ-15.55	5.2	0.9	AMZ-15.57	5.2	1.7	AMZ-15.51	5.2	1.8	AMZ-15.52	5.2	2.7
20 $\pm$ 1.0	4.0 $\pm$ 1.0	AMZ-20.55	6.8	1.0	AMZ-20.57	6.8	1.9	AMZ-20.51	6.8	2.0	AMZ-20.52	6.8	2.8
25 $\pm$ 1.25	5.0 $\pm$ 1.0	AMZ-25.55	8.5	1.3	AMZ-25.57	8.5	2.1	AMZ-25.51	8.5	2.2	AMZ-25.52	8.5	3.0
30 $\pm$ 1.5	6.0 $\pm$ 1.5	AMZ-30.55	10.2	1.4	AMZ-30.57	10.2	2.2	AMZ-30.51	10.2	2.4	AMZ-30.52	10.2	3.2
35 $\pm$ 1.75	7.0 $\pm$ 1.5	AMZ-35.55	11.9	1.5	AMZ-35.57	11.9	2.4	AMZ-35.51	11.9	2.6	AMZ-35.52	11.9	3.4
40 $\pm$ 2.0	8.0 $\pm$ 1.8	AMZ-40.55	13.6	1.6	AMZ-40.57	13.6	2.7	AMZ-40.51	13.6	2.8	AMZ-40.52	13.6	3.6
50 $\pm$ 2.5	10.0 $\pm$ 2.0	AMZ-50.55	17.0	2.0	AMZ-50.57	17.0	2.9	AMZ-50.51	17.0	3.1	AMZ-50.52	17.0	5.5
60 $\pm$ 3.0	12.0 $\pm$ 2.5	AMZ-60.55	20.4	2.2	AMZ-60.57	20.4	3.3	AMZ-60.51	20.4	3.3	AMZ-60.52	20.4	6.2
75 $\pm$ 3.75	15.0 $\pm$ 3.0	AMZ-75.55	25.5	2.5	AMZ-75.57	25.5	3.6	AMZ-75.51	25.5	3.6	AMZ-75.52	25.5	6.8
80 $\pm$ 4.0	16.0 $\pm$ 3.0	AMZ-80.55	27.2	2.6	AMZ-80.57	27.2	3.4	AMZ-80.51	27.2	5.0	AMZ-80.52	27.2	7.0
100 $\pm$ 5.0	20.0 $\pm$ 3.0	AMZ-100.55	34.0	3.0	AMZ-100.57	34.0	3.7	AMZ-100.51	34.0	5.8	AMZ-100.52	34.0	7.8

1. Rise Times are measured from 10% to 90% points.
2. Delay Times measured at 50% point of leading edge.
3. Output (100% Tap) terminated to ground through $R_L = Z_0$.

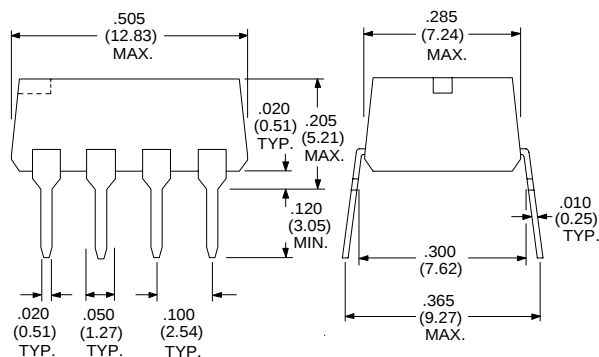
AMZ Style Schematic
Recommended
for New Designs



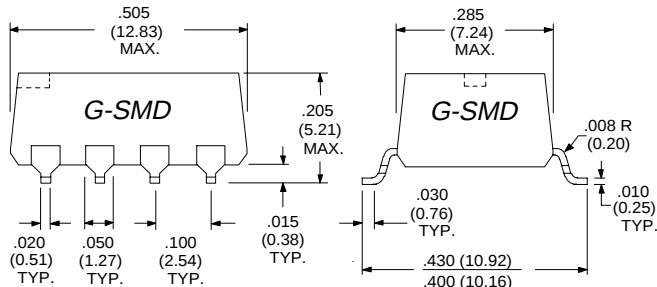
AMY Style Schematic
Per table, substitute
AMY for AMZ in P/N



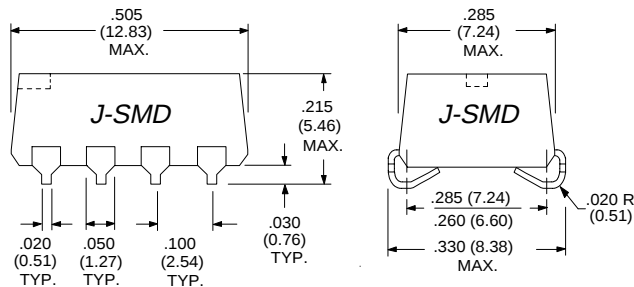
Dimensions in Inches (mm)



To Specify SMD: Add Suffix "G" to P/N



To Specify SMD: Add Suffix "J" to P/N



Specifications subject to change without notice.

For other values & Custom Designs, contact factory.

AMZ 9901

Find price and stock options from leading distributors for AMZ-51J on Findchips.com:

<https://findchips.com/search/AMZ-51J>

Find CAD models and details for this part:

<https://findchips.com/detail/amz-51j/Rhombus-Industries-Inc>