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/°C*
- *Operating Temperature Range -55°C to +125°C*

Operating Specifications - *Passive Delay Lines*

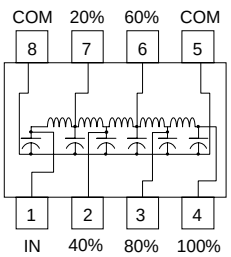
Pulse Overshoot (Pos) ..... 5% to 10%, typical
Pulse Distortion (S) ..... 3% typical
Working Voltage ..... 25 VDC maximum
Dielectric Strength ..... 100VDC minimum
Insulation Resistance ..... 1,000 MΩ min. @ 100VDC
Temperature Coefficient ..... 70 ppm/°C, typical
Bandwidth (f_C) ..... 0.35/t_r approx.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

Electrical Specifications at 25°C [1, 2, 3] Note: For SMD Package add "G" of "J" as below to P/N in Table

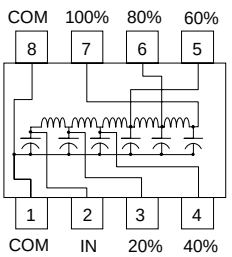
Delay Tolerances Total (ns)	Delay Tolerances Tap-to-Tap (ns)	50 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	75 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	100 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	200 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)
2.5 ± 0.3	0.5 ± 0.2	AMZ-2.55	1.5	0.4	AMZ-2.57	1.5	0.6	AMZ-2.51	1.5	0.6	AMZ-2.52	1.5	0.9
5 ± 0.5	1.0 ± 0.3	AMZ-55	2.0	0.5	AMZ-57	2.0	0.6	AMZ-51	2.0	0.6	AMZ-52	2.0	1.1
6 ± 0.5	1.2 ± 0.4	AMZ-65	2.3	0.5	AMZ-67	2.3	0.6	AMZ-61	2.4	0.7	AMZ-62	2.6	1.1
7 ± 0.5	1.4 ± 0.4	AMZ-75	2.6	0.6	AMZ-77	2.6	0.6	AMZ-71	2.8	0.8	AMZ-72	2.8	1.1
7.5 ± 0.5	1.5 ± 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 ± 0.5	1.6 ± 0.5	AMZ-85	3.0	0.6	AMZ-87	3.0	0.9	AMZ-81	3.0	0.8	AMZ-82	3.1	1.4
9 ± 0.5	1.8 ± 0.5	AMZ-95	3.3	0.7	AMZ-97	3.4	0.9	AMZ-91	3.4	0.8	AMZ-92	3.4	1.4
10 ± 1.0	2.0 ± 0.5	AMZ-105	3.4	0.7	AMZ-107	3.5	0.9	AMZ-101	3.6	0.9	AMZ-102	3.6	1.6
15 ± 1.0	3.0 ± 0.6	AMZ-155	5.2	0.9	AMZ-157	5.2	1.7	AMZ-151	5.2	1.8	AMZ-152	5.2	2.7
20 ± 1.0	4.0 ± 1.0	AMZ-205	6.8	1.0	AMZ-207	6.8	1.9	AMZ-201	6.8	2.0	AMZ-202	6.8	2.8
25 ± 1.25	5.0 ± 1.0	AMZ-255	8.5	1.3	AMZ-257	8.5	2.1	AMZ-251	8.5	2.2	AMZ-252	8.5	3.0
30 ± 1.5	6.0 ± 1.5	AMZ-305	10.2	1.4	AMZ-307	10.2	2.2	AMZ-301	10.2	2.4	AMZ-302	10.2	3.2
35 ± 1.75	7.0 ± 1.5	AMZ-355	11.9	1.5	AMZ-357	11.9	2.4	AMZ-351	11.9	2.6	AMZ-352	11.9	3.4
40 ± 2.0	8.0 ± 1.8	AMZ-405	13.6	1.6	AMZ-407	13.6	2.7	AMZ-401	13.6	2.8	AMZ-402	13.6	3.6
50 ± 2.5	10.0 ± 2.0	AMZ-505	17.0	2.0	AMZ-507	17.0	2.9	AMZ-501	17.0	3.1	AMZ-502	17.0	5.5
60 ± 3.0	12.0 ± 2.5	AMZ-605	20.4	2.2	AMZ-607	20.4	3.3	AMZ-601	20.4	3.3	AMZ-602	20.4	6.2
75 ± 3.75	15.0 ± 3.0	AMZ-755	25.5	2.5	AMZ-757	25.5	3.6	AMZ-751	25.5	3.6	AMZ-752	25.5	6.8
80 ± 4.0	16.0 ± 3.0	AMZ-805	27.2	2.6	AMZ-807	27.2	3.4	AMZ-801	27.2	5.0	AMZ-802	27.2	7.0
100 ± 5.0	20.0 ± 3.0	AMZ-1005	34.0	3.0	AMZ-1007	34.0	3.7	AMZ-1001	34.0	5.8	AMZ-1002	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 $R_L=Z_O$

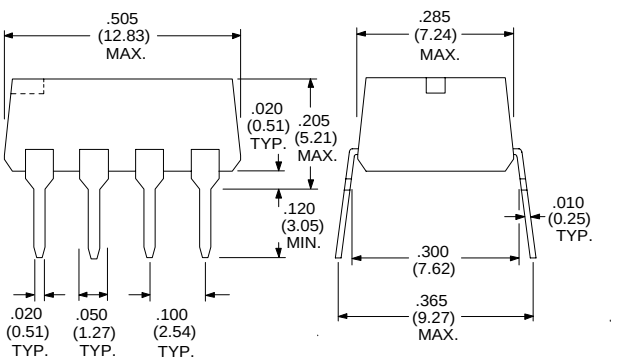
AM**Z** Style Schematic
Recommended for New Designs



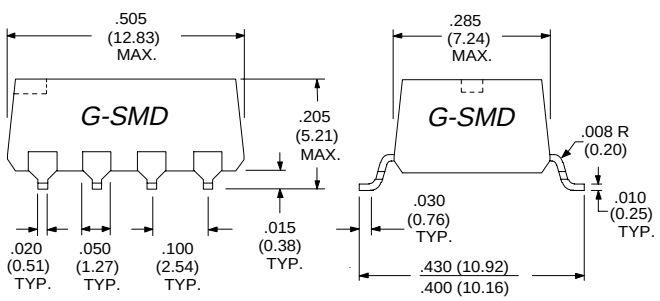
AM**Y** Style Schematic
Per table, substitute AMY for AMZ in P/N



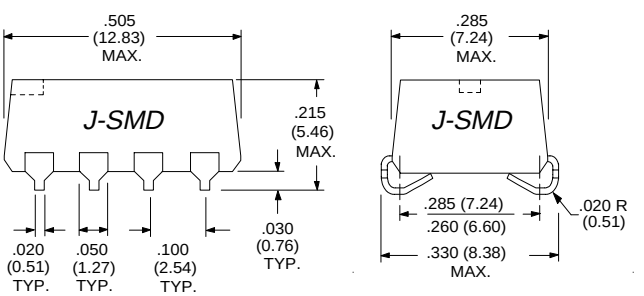
Dimensions in Inches (mm)



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

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