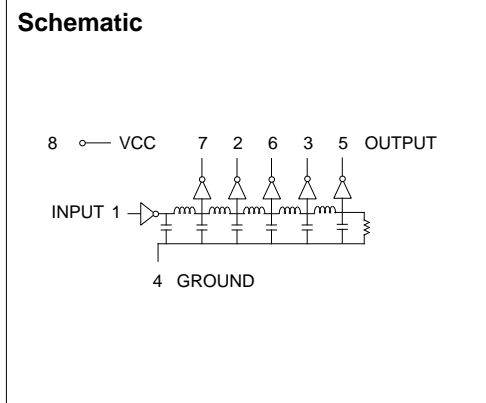


8 Pin Mini DIP and Mini DIL 5 Tap TTL Compatible Active Delay Lines

| Delays are $\pm 5\%$ or ± 2 nS† | Tap | Total | DIP Part Number | DIL Part Number | Delays are $\pm 5\%$ or ± 2 nS† | Tap | Total | DIP Part Number | DIL Part Number |
|-------------------------------------|-----|-------|-----------------|-----------------|-------------------------------------|-----|-------|-----------------|-----------------|
| 5, 10, 15, 20 | | 25 | EP9458-25 | EP9458-25W | 30, 60, 90, 120 | | 150 | EP9458-150 | EP9458-150W |
| 6, 12, 18, 24 | | 30 | EP9458-30 | EP9458-30W | 35, 70, 105, 140 | | 175 | EP9458-175 | EP9458-175W |
| 7, 14, 21, 28 | | 35 | EP9458-35 | EP9458-35W | 40, 80, 120, 160 | | 200 | EP9458-200 | EP9458-200W |
| 8, 16, 24, 32 | | 40 | EP9458-40 | EP9458-40W | 45, 90, 135, 180 | | 225 | EP9458-225 | EP9458-225W |
| 9, 18, 27, 36 | | 45 | EP9458-45 | EP9458-45W | 50, 100, 150, 200 | | 250 | EP9458-250 | EP9458-250W |
| 10, 20, 30, 40 | | 50 | EP9458-50 | EP9458-50W | 60, 120, 180, 240 | | 300 | EP9458-300 | EP9458-300W |
| 12, 24, 36, 48 | | 60 | EP9458-60 | EP9458-60W | 70, 140, 210, 280 | | 350 | EP9458-350 | EP9458-350W |
| 15, 30, 45, 60 | | 75 | EP9458-75 | EP9458-75W | 80, 160, 240, 320 | | 400 | EP9458-400 | EP9458-400W |
| 20, 40, 60, 80 | | 100 | EP9458-100 | EP9458-100W | 90, 180, 270, 360 | | 450 | EP9458-450 | EP9458-450W |
| 25, 50, 75, 100 | | 125 | EP9458-125 | EP9458-125W | 100, 200, 300, 400 | | 500 | EP9458-500 | EP9458-500W |

† Whichever is greater. Delay times referenced from input to leading edges at 25°C, 5.0V, with no load.

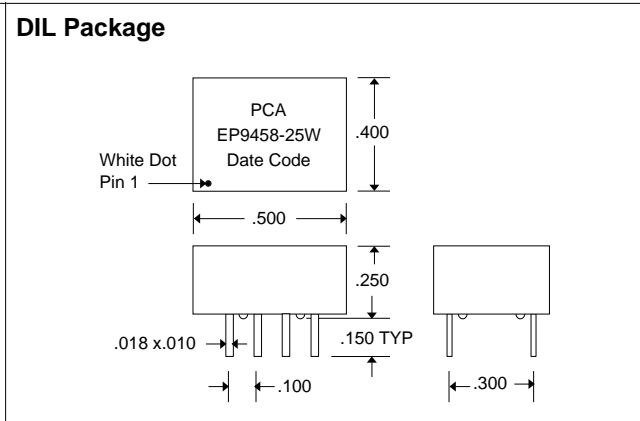
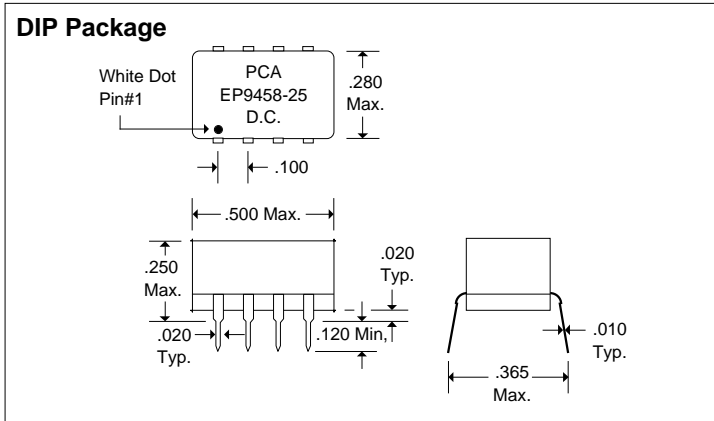
| DC Electrical Characteristics | | | | | |
|-------------------------------|------------------------------|---|-----|-------------|------|
| Parameter | | Test Conditions | Min | Max | Unit |
| V _{OH} | High-Level Output Voltage | V _{CC} = min. V _{IL} = max. I _{OH} = max | 2.7 | | V |
| V _{OL} | Low-Level Output Voltage | V _{CC} = min. V _{IH} = min. I _{OL} = max | | 0.5 | V |
| V _{IK} | Input Clamp Voltage | V _{CC} = min. I _I = I _{IK} | | -1.2 | V |
| I _{IH} | High-Level Input Current | V _{CC} = max. V _{IN} = 2.7V | | 50 | μA |
| | | V _{CC} = max. V _{IN} = 5.25V | | 1.0 | mA |
| I _{IL} | Low-Level Input Current | V _{CC} = max. V _{IN} = 0.5V | | -2 | mA |
| I _{OS} | Short Circuit Output Current | V _{CC} = max. V _{OUT} = 0. | -40 | -100 | mA |
| | | (One output at a time) | | | |
| I _{CCH} | High-Level Supply Current | V _{CC} = max. V _{IN} = OPEN | | 75 | mA |
| I _{CCL} | Low-Level Supply Current | V _{CC} = max. V _{IN} = 0 | | 75 | mA |
| T _{RO} | Output Rise Time | T _d 500 nS (0.75 to 2.4 Volts) | | 4 | nS |
| N _H | Fanout High-Level Output | V _{CC} = max. V _{OH} = 2.7V | | 20 TTL LOAD | |
| N _L | Fanout Low-Level Output | V _{CC} = max. V _{OL} = 0.5V | | 10 TTL LOAD | |



| Recommended Operating Conditions | | | | |
|----------------------------------|--------------------------------|------|------|------|
| | | Min | Max | Unit |
| V _{CC} | Supply Voltage | 4.75 | 5.25 | V |
| V _{IH} | High-Level Input Voltage | 2.0 | | V |
| V _{IL} | Low-Level Input Voltage | | 0.8 | V |
| I _{IK} | Input Clamp Current | | -18 | mA |
| I _{OH} | High-Level Output Current | | -1.0 | mA |
| I _{OL} | Low-Level Output Current | | 20 | mA |
| P _{VV} * | Pulse Width of Total Delay | 40 | | % |
| d* | Duty Cycle | | 40 | % |
| T _A | Operating Free-Air Temperature | 0 | +70 | °C |

| Input Pulse Test Conditions @ 25° C | | | Unit |
|-------------------------------------|---|-----|-------|
| E _{IN} | Pulse Input Voltage | 3.2 | Volts |
| PW | Pulse Width % of Total Delay | 110 | % |
| T _{RI} | Pulse Rise Time (0.75 - 2.4 Volts) | 2.0 | nS |
| PRR | Pulse Repetition Rate @ T _d 200 nS | 1.0 | MHz |
| | Pulse Repetition Rate @ T _d > 200 nS | 100 | KHz |
| V _{CC} | Supply Voltage | 5.0 | Volts |

*These two values are inter-dependent.



DSD9458 Rev. A 2/5/96

QAF-CS01 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches
Tolerances:
Fractional = $\pm 1/32$
.XX = $\pm .030$.XXX = $\pm .010$



16799 SCHOENBORN ST.
NORTH HILLS, CA 91343
TEL: (818) 892-0761
FAX: (818) 894-5791