

EC²



PASSIVE DELAY LINE

low profile

**Wee SIP
LUMPED
CONSTANT**

- Analog input and output
- Delays stable and precise
- 3-pin Wee SIP package (.180 high)
- Available in delays from 1ns to 250ns
- Precise, fixed delay
- Available in impedances of 50, 100, 200, 350 and 500 ohms

design notes

The "Wee SIP Series" Lumped Constant Passive Delay Lines developed by Engineered Components Company have been designed to provide precise delays for analog delay line applications. These delay lines provide excellent delay accuracy, low DCR, low attenuation and low distortion.

These delay lines are offered in 188 models with delays from 1 to 250ns. Delay time is measured at the 50% point on the leading edge. Accuracies are maintained as shown under "Operating Characteristics." Temperature coefficient of delay is less than 75 ppm/°C over the operating temperature range of -55 to +125°C.

The "Wee SIP Series" LC delay lines are intended for use in most analog applications; they are also compatible with the low signal levels of TTL and ECL. These delay lines find extensive

use in providing the required delay timing functions necessary in radar, computer, communication, testing and instrument applications.

Construction of the "Wee SIP Series" utilizes miniature inductors and monolithic ceramic capacitors to provide the utmost in miniaturization and reliability. The MTBF on these delay lines, when calculated per MIL-HDBK-217, for a 50°C ground fixed environment and with 5V DC applied, is in excess of 12 million hours.

The "Wee SIP Series" delay lines are packaged in a 3-pin SIP housing, molded of flame-proof Diallyl Phthalate per MIL-M-14, Type SDG-F. These delay lines are designed to meet the applicable portions of MIL-D-23859, and they are capable of meeting the environmental requirements of MIL-STD-202 for moisture resistance, vibration, temperature cycling, humidity and life. Flat metal leads meet the solderability requirements of MIL-STD-202, Method 208. Corner standoffs on the housing provide positive standoff from the printed circuit board to permit solder-fillet formation and flush cleaning of solder-flux residues for improved reliability.

Marking consists of manufacturer's logo (EC²), federal supply code, part number, terminal identification and date code of manufacture. All marking is applied by silk screen process using white epoxy paint in accordance with MIL-STD-130, to meet the permanency of identification required by MIL-STD-202, Method 215.

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engineered components company

3580 Sacramento Drive, P. O. Box 8121, San Luis Obispo, CA 93403-8121

Phone: (805) 544-3800