CALIFORNIA MICRO DEVICES



MICROPOWER RRO Operational Amplifier with Shutdown

Features

- · Stable resistor-capacitor network
- 9 terminating lines/package
- · Saves board space, reduces assembly cost, simplifies routing
- · ESD protected
- Miniature QSOP package

Applications

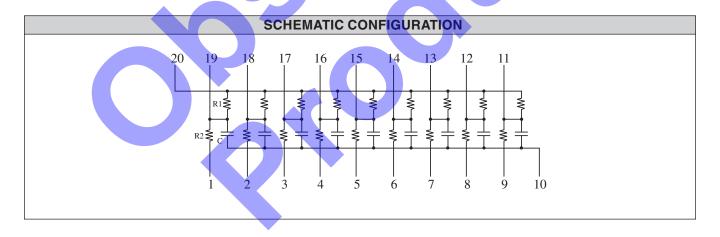
- ECP/EPP Parallel Port termination
- EMI/RFI Filter
- Notebook and Desktop computers
- · Engineering Workstations and Servers

Product Description

Advanced, high-speed parallel ports, conforming to the IEEE 1284 standard, are used to provide communications with external devices such as tape back-up drives, ZIP drives, printers, parallel port SCSI adapters, external LAN adapters, scanners, and other PC peripherals. These advanced ports support bi-directional transfers to 2MB/sec and above. To support these data rates, the IEEE 1284 standard recommends a combined termination, pull-up filter network between the driver/receiver and the cable at both ends of the parallel port interface. In addition, government EMC compatibility requirements impose the need to include a filter on the parallel port.

The PRC1284 addresses all of these requirements by providing a nine line, IEEE 1284 compliant network in a thin film integrated circuit. Two of these networks replace 54 discrete components and provide a complete parallel port termination.

CAMD's PRC1284 Parallel Port Termination Network is a convenient single function which includes pull-up, series termination, and an EMI filter capacitor. The resistors and capacitors are fabricated using proprietary state-ofthe-art thin film technology.



| STANDARD PART ORDERING INFORMATION | | | | | |
|------------------------------------|----------------------------|-----------------------|----------------------|---------------|--------------|
| | Package RC Code Pins Style | | Ordering Part Number | | |
| RC Code | | | Tubes | Tape & Reel | Part Marking |
| 01 | 20 | SOIC | PRC1284-01S/T | PRC1284-01S/R | PRC1284-01S |
| 02 | 20 | SOIC | PRC1284-02S/T | PRC1284-02S/R | PRC1284-02S |
| 03 | 20 | SOIC | PRC1284-03S/T | PRC1284-03S/R | PRC1284-03S |
| 04 | 20 | SOIC | PRC1284-04S/T | PRC1284-04S/R | PRC1284-04S |
| 05 | 20 | SOIC | PRC1284-05S/T | PRC1284-05S/R | PRC1284-05S |
| 06 | 20 | SOIC | PRC1284-06S/T | PRC1284-06S/R | PRC1284-06S |
| 07 | 20 | 20 SOIC PRC1284-07S/T | | PRC1284-07S/R | PRC1284-07S |

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CALIFORNIA MICRO DEVICES

| STANDARD PART ORDERING INFORMATION (Continued) | | | | | |
|--|----------------------------|------|----------------------|---------------|--------------|
| | Package RC Code Pins Style | | Ordering Part Number | | |
| RC Code | | | Tubes Tape & Reel | | Part Marking |
| 01 | 20 | QSOP | PRC1284-01Q/T | PRC1284-01Q/R | PRC1284-01Q |
| 02 | 20 | QSOP | PRC1284-02Q/T | PRC1284-02Q/R | PRC1284-02Q |
| 03 | 20 | QSOP | PRC1284-03Q/T | PRC1284-03Q/R | PRC1284-03Q |
| 04 | 20 | QSOP | PRC1284-04Q/T | PRC1284-04Q/R | PRC1284-04Q |
| 05 | 20 | QSOP | PRC1284-05Q/T | PRC1284-05Q/R | PRC1284-05Q |
| 06 | 20 | QSOP | PRC1284-06Q/T | PRC1284-06Q/R | PRC1284-06Q |
| 07 | 20 | QSOP | PRC1284-07Q/T | PRC1284-07Q/R | PRC1284-07Q |

California Micro Devices can develop a fully customized solution which embodies the configuration shown in this data sheet or modified to suit specific application requirements. A Non-Recurring Engineering (NRE) charge will apply for all fully customized requirements and a minimum order/lot will be required.

Please direct your detailed circuit configuration and specification requirements to your local CAMD representative or to the factory for a quotation.

| STANDARD SPECIFICATIONS | | | | | | |
|-----------------------------|--------------|--|--|--|--|--|
| Absolute Tolerance (R) | ±10% | | | | | |
| Absolute Tolerance (C) | ±20% | | | | | |
| Operating Temperature Range | 0°C to 70°C | | | | | |
| Power Rating/Resistor (R1) | 100mW | | | | | |
| Storage Temperature | -65C to 150C | | | | | |
| Package Power Rating | 1W, Max | | | | | |

| STANDARD VALUES | | | | | |
|-----------------|--------|--------|----------------------------|---------|--|
| R1 (Ω) | R2 (Ω) | C (pf) | Breakdown Voltage (Max) | RC Code | |
| 1K | 33 | 180 | 25V | 01 | |
| 2.2K | 33 | 220 | 25V | 02 | |
| 4.7K | 10 | 180 | 25V | 03 | |
| 4.7K | 33 | 180 | 25V | 04 | |
| 4.7K | 270 | 33 | 25V | 05 | |
| 4.7K | 27 | 33 | 25V | 06 | |
| 10K | 10 | 27 | 25V | 07 | |

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