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

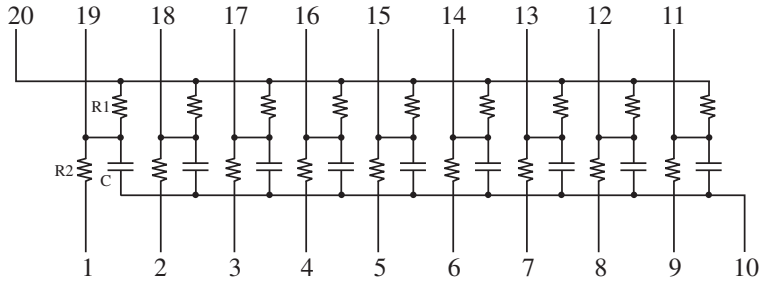
Product Description

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-of-the-art thin film technology.

SCHEMATIC CONFIGURATION



STANDARD PART ORDERING INFORMATION

	Package		Ordering Part Number		
RC Code	Pins	Style	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	SOIC	PRC1284-07S/T	PRC1284-07S/R	PRC1284-07S

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STANDARD PART ORDERING INFORMATION (Continued)					
	Package		Ordering Part Number		
RC Code	Pins	Style	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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