



P/ACTIVE PRECISION VOLTAGE DIVIDER NETWORK FOR LINEAR TECHNOLOGY LTC1266/LT1431

Features

- Provides a complete Pentium regulator solution when combined with a Linear Technology LTC1266/LT1431 Power Supply Regulator Circuit
- Miniature SOT and SOIC packages
- Thin film tightly ratio matched resistors using P/Active technology

Applications

- Linear Technology Pentium 54/55C Power Supply Regulator

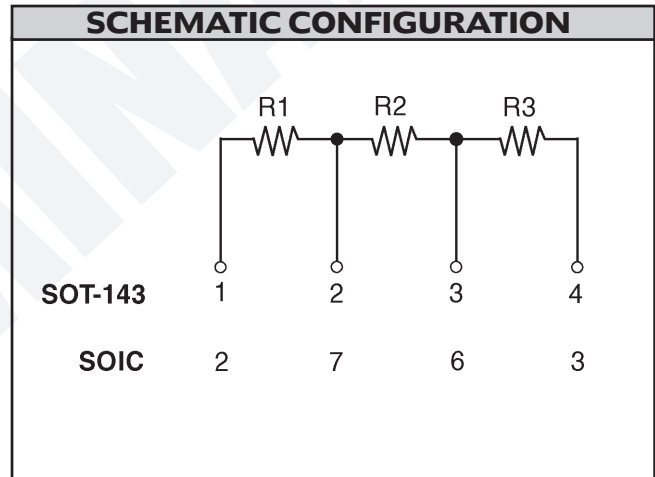
Refer to AP-202 Voltage Divider Application Note for further information.

Product Description

CAMD's P/Active 27A02 Precision Voltage Divider Network is designed to work with the Linear Technology LTC1266 Synchronous Regulator Controller and LT1431 Programmable Reference commonly used in Pentium P54/P55C power regulator designs. CAMD's P/Active technology provides precision ratio tracking over temperature/time required for proper voltage regulation by the Pentium processor.

STANDARD SPECIFICATIONS	
Absolute Tolerance (R)	±5%
Ratio Tracking (0°C ≤ T _A ≤ 70°C) (Voltage per resistor < 10 volts and power resistor < 25mW) R1/R2 (R1 + R2)/R3	±1.0% ±0.25%
Operating Temperature Range	0°C to 70°C
Power Rating/Resistor	25mW @ 70°C
Storage Temperature	-65°C to 150°C
Package Power Rating	0.225W @ 70°C

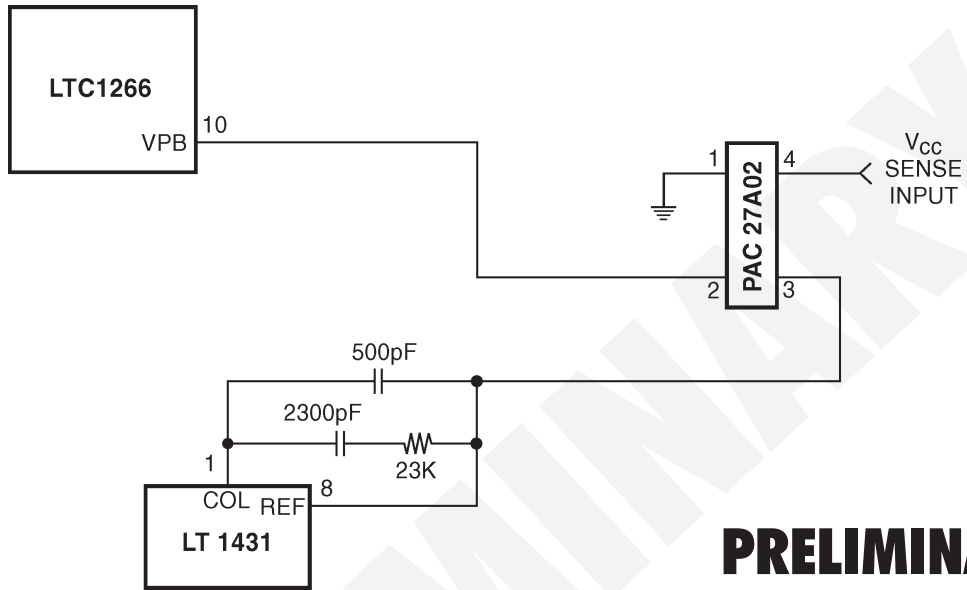
STANDARD VALUES	
Resistor (R)	Value
R1	1150
R2	1350
R3	1000



STANDARD PART ORDERING INFORMATION					
Package - Narrow		Ordering Part Number			Part Marking
Pins	Style	Tubes	Bags	Tape & Reel	Part Marking
4	SOT-143	-	PAC27A02T/B	PAC27A02T/R	A02T
8	SOIC	PAC27A02S/T	-	PAC27A02S/R	PAC27A02S



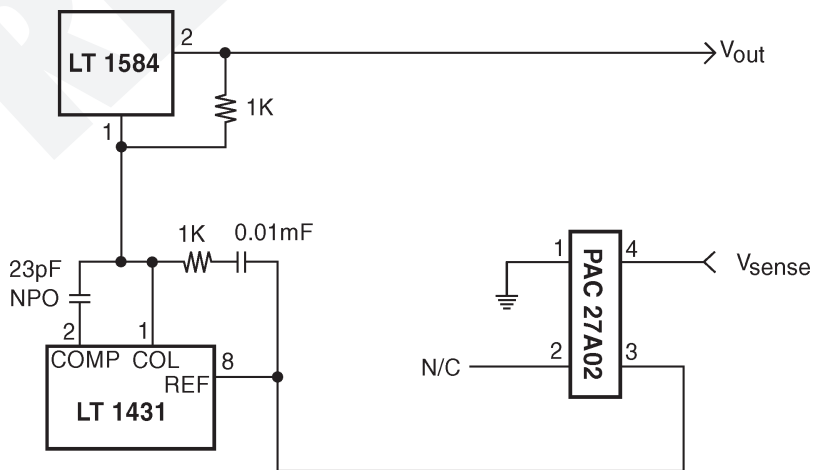
Application Diagram



PRELIMINARY

Switch Mode Regulator

Application Diagram



Linear Regulator