Issue #294 — January 2015

PROJECT FILES

All of the project files for this issue are available: ftp://ftp.circuitcellar.com/pub/Circuit_Cellar/2015/294/

ARTICLE MATERIALS

Current Tracking
How to Monitor Current Flow Under Various Operating Conditions
By Jeff Bachiochi

SOURCES
MAX4069 Bidirectional amplifiers
Maxim Integrated | www.maximintegrated.com

PIC16F1829LIN Microcontroller
Microchip Technology | www.microchip.com

Series 10
Ohmite Mfg. Co. | www.ohmite.com

Brute-Force Universal Motor Control
By Ed Nisley

RESOURCES


SOURCES
MCP4725 DAC Breakout board
Adafruit Industries | www.adafruit.com/products/935

SS49E Hall effect sensors

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Essential Electromagnetic Compliance (Part 2)
A Look at EMI Causes & Signal Types
By George Novacek

REFERENCES

Adaptive Applications for Energy Efficiency
By Ayse K. Coskun

REFERENCES


Build a Duodecimal Clock
By Devlin Gualtieri

REFERENCE

SOURCES
LDS-AA12RI Display
Lumex | www.lumex.com

PIC16F630 Microcontroller
Microchip Technology | www.microchip.com

PIC Basic Pro
microEngineering Labs | www.melabs.com
The Twin-T Oscillator Configuration
An Audio Oscillator and Stereo VU Meter
By Larry Cicchinelli

RESOURCES


———, K3PTO Published Articles, www.qsl.net/k3pto.

REFERENCE

SOURCES
PCB design software
DipTrace | www.diptrace.com

LM3916, LM3915, and LM3914 Circuits
Texas Instruments, Inc. | www.ti.com

Webcam Mouse
By Alex Leung & Miles Pedrone (US)

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SOURCES
ATmega1284 Microcontroller
Atmel | www.atmel.com

MATLAB
MathWorks | www.mathworks.com
Virtual Instrumentation
A Tool for Characterizing NMOS Transistors
By Ahron Emanuel, Shlomo Engelberg, and Dvir Ophir (Israel)

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SOURCES
ADuC841 Microcontroller
Analog Devices | www.analog.com

MATLAB
MathWorks | www.mathworks.com

Measuring Small Circuits
By David Ludington