Vol.47 No.551 2010

http://toragi.cqpub.co.jp/

Special Feature

Common sense to utilize passive components for downsizing

Complete Book of chip components

Introduction Before reading the special topic

58 Latest information of passive chip components

Chapter 1 Laminated ceramic, aluminum electrolysis,

solid aluminum electrolysis, film.tantalum.

tantalum solid electrolysis, variability, electric double layer 64

Chip capacitor

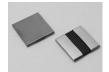




Chapter 2 Thick film chip, thin film chip, current detection,

metal oxide film, carbon film, variability 100

Chip resistor





Chapter 3 Lamination, winding, thin film

121 Chip inductor





Chapter 4 Crystal, ceramic 134

Chip oscillator



Chapter 5 Fuse, resettable fuse, ESD protection diode, varistor

142 Chip protector





Chapter 6 Knowledge of surface mounted devices

162 Added bonus columns

Selective Report

Ready for widespread use of display with high resolution and high frame rate 171 Mechanism of 3D display and application hint



Ge	eneral description
	Can be used as JTAG/SWD debugger and low price
167	ARM Cortex-M3 core microcomputer
	LPC1343 evaluation kit "LPCXpresso"
183	Lumped parameter design with chip components! Fabrication trial to of 2.4GHz band pass filter
	Challenge in GHz zone
	with easy management of distributed parameter circuit
	Based on the experiment to remove the integration error and stop the pendulum swings
191	Study of observer control to cancel noise and drift integration
Sc	erialization
202	Introduction to digital filter without mathematical formula (11)
202	Odd order FIR filter and 90° phase shifting filter
210	Protect devices from impulse noise and lightning surge
	Test for lightning surge to power line and communication line
213	Challenge to CMOS analog IC design 〈14〉
	Layout design of OP amplifier IC circuits
220	Learn from one's mistakes 〈7〉
	Degradation of radiation noise and error rate
222	Electronics of the universe <4> Radiologic countermeasure
	Hadibiogic countermeasure
224	Learn from an expert ! Efforts to start a new business <4>
	Image System Application Co., Ltd.
226	Checkmate circuit 〈Question No.7〉
	Reduce noises coming into amplifier from power line
227	Reader's Forum 228 Information 230 Next issue/Editorial voice

CQ Publishing Co., Ltd. 1-14-2 Sugamo Toshimaward Tokyo,170-8461 JAPAN Phone : Sales +81-3-5395-2141 Advertisement +81-3-5395-2131 Editorial +81-3-5395-2123 Postal Transfer: 00100-7-10665

: Sanae Mizoguchi Publisher Editor-in-chief : Yuji Teramae Copyright © 2010 by CQ Publishing Co., Ltd. Issue : August 1st, 2010 (Monthly issued on the 1st day) Joint to the Japan Audit Bureau of Circulations (ABC) (Retail price is on the back cover)

Printing: Sanko Printing Co., Ltd. / Dainippon Printing Co., Ltd. / Miwa Printing Co., Ltd. / Sankyo Graphics Co., Ltd. / Kuni-media Co., Ltd.

Binding : Hoshino Binding Books Co., Ltd. Printed in Japan

