

POWER MAGNETICS

UNSHIELDED SURFACE MOUNT PRODUCT GUIDE

TABLE OF CONTENTS

Wire-wound Inductors

CT636FYF	3
CT646FYF	3
CT814AYF	3
CT817FYF	4
CTDO1608CF	4
CTDO1813PF-HC	4
CTDO3308PF	5
CTDO3316PF	5
CTDO3316PF-HC	5
CTDO3340PF	6
CTDO5022PF	6
CTDO5022PF-HC	6
CTDO5040F	7
CTGS32F	7
CTGS43F	7
CTGS53F	8
CTGS54F	8
CTGS73F	8
CTGS75F	9
CTGS104F	9
CTGS105F	9
CTGS137F	10
CTUP3BF	10
CTIHSM4825F	10
CTIHSM5832F	11
CTP1330F	11
CTCMD4D06F	11
CTCMD5D13F	12
CTRL6050F	12

High Current Toroid Coil

CTTSMD2110F	12
CTTSMD2120F	13
CTSPT-H	13
CTSPT-L	13

**CT636FYF**

Wire-wound Inductors

Description

SMD power inductor

Application Use

Ideal for a variety of DC/DC converter applications and low profile use.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 100 μ H	100kHz	0.2 ~ 0.95		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.38A ~ 2.9A			7.4L x 7.4W x 3.5H

**CT646FYF**

Wire-wound Inductors

Description

SMD power inductor

Application Use

Ideal for a variety of DC/DC converter applications and low profile use.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1000 μ H	100kHz	0.023 ~ 5.39		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.15A ~ 2.88A			7.4L x 7.4W x 5.5H

**CT814AYF**

Wire-wound Inductors

Description

SMD power inductor

Application Use

LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
10 μ H ~ 1500 μ H	100kHz	0.047 ~ 4.37		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.25A ~ 2.6A		11.5L x 9.7W x 5.0H

**CT817FYF**

Wire-wound Inductors

Description

SMD power inductor

Application Use

Ideal for a variety of DC/DC converter applications and low profile use.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 100 μ H	100kHz	20m ~ 1080m		0.39A ~ 3.6A

Rated Current	Rated DC	Isat	Irms	Size (mm)
				7.6L x 7.6W x 3.0H

**CTDO1608CF**

Wire-wound Inductors

Description

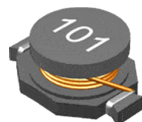
SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters, Used in limited spaces and ultra-low profiles.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1000 μ H	100kHz	0.05 ~ 14		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.10A ~ 2.9A	0.07A ~ 2.9A	6.58L x 4.45W x 2.92H

**CTDO1813PF-HC**

Wire-wound Inductors

Description

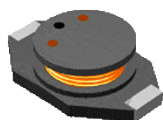
SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters. Step up and step down converters and flash memory programmers.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
0.18 μ H ~ 100 μ H	100kHz	0.03 ~ 1.11		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.53A ~ 14A	0.47A ~ 10A	8.89L x 6.1W x 5.0H



CTDO3308PF

Wire-wound Inductors

Description

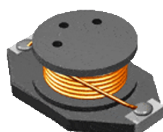
SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
4.7 μ H ~ 1000 μ H	100kHz	0.036 ~ 7.0		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.29A ~ 4.2A	0.23A ~ 3.2A	12.95L x 9.4W x 3.0H



CTDO3316PF

Wire-wound Inductors

Description

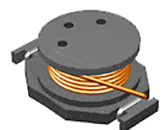
SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1500 μ H	100kHz	0.01 ~ 5.0		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.27A ~ 9.0A	0.25A ~ 6.8A	12.95L x 9.4W x 5.2H



CTDO3316PF-HC

Wire-wound Inductors

Description

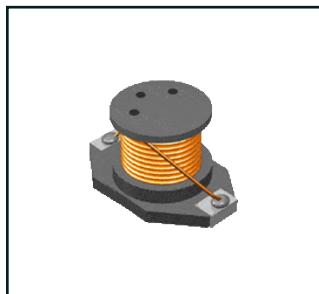
SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
0.33 μ H ~ 100 μ H	100kHz	0.002 ~ 0.40		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.95A ~ 20A	1.2A ~ 16A	13.21L x 9.91W x 6.35H



CTDO3340PF

Wire-wound Inductors

Description

SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
10 μ H ~ 1000 μ H	100kHz	0.03 ~ 2.0		
Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.80A ~ 8.0A	0.10A ~ 3.5A	12.95L x 9.4W x 11.43H



CTDO5022PF

Wire-wound Inductors

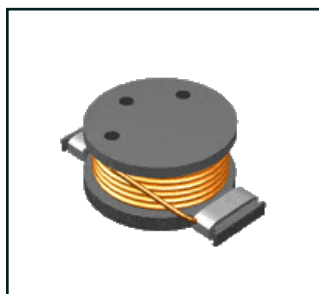
Description

SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops. Designed for the higher current requirements of portable computers.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1000 μ H	100kHz	0.011 ~ 1.8		
Rated Current	Rated DC	Isat	Irms	Size (mm)
		1.0A ~ 20A	0.56A ~ 8.6A	18.54L x 15.24W x 7.0H



CTDO5022PF-HC

Wire-wound Inductors

Description

SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops. Designed for the higher current requirements of portable computers.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
0.78 μ H ~ 15 μ H	100kHz	0.003 ~ 0.032		8.0A ~ 30A
Rated Current	Rated DC	Isat	Irms	Size (mm)
				22.35L x 16.26W x 8.0H

**CTDO5040F**

Wire-wound Inductors

Description

SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops. Designed for the higher current requirements of portable computers.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
0.68 μ H ~ 150 μ H	100kHz	2.0m ~ 200m		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		4.0A ~ 64A		18.54L x 15.24W x 11.43H

**CTGS32F**

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1200 μ H	100kHz	0.06 ~ 30		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.08A ~ 2.7A	0.06A ~ 2.1A	3.0L x 2.8W x 2.5H

**CTGS43F**

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 68 μ H	1.0 μ H ~ 8.2 μ H @ 7.96MHz; 10 μ H ~ 68 μ H @ 2.52MHz	0.033 ~ 1.117		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.46A ~ 3.8A			4.5L x 4.0W x 3.2H



CTGS53F

Wire-wound Inductors

Description

SMD power inductor

Application Use

LCD televisions, PC notebooks, portable communication equipment, camcorders, car radios, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
10 μ H ~ 15000 μ H	1.0kHz	0.13 ~ 168		0.02A ~ 1.3A
Rated Current	Rated DC	Isat	Irms	Size (mm)
				5.0L x 4.5W x 3.0H



CTGS54F

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 220 μ H	1.0 μ H ~ 8.2 μ H @ 7.96MHz; 10 μ H ~ 82 μ H @ 2.52MHz; 100 μ H ~ 220 μ H @ 1.0kHz	0.015 ~ 1.6		
Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.35A ~ 5.9A			5.8L x 5.2W x 4.5H



CTGS73F

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
10 μ H ~ 330 μ H	10 μ H ~ 82 μ H @ 2.52MHz; 100 μ H ~ 330 μ H @ 1.0kHz	0.08 ~ 1.5		
Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.28A ~ 1.44A			7.8L x 7.0W x 3.5H



CTGS75F

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 820 μ H	1.0 μ H @ 25.2MHz; 1.4 μ H ~ 8.2 μ H @ 7.96MHz; 10 μ H ~ 82 μ H @ 2.52MHz; 100 μ H ~ 820 μ H @ 1.0kHz	0.02 ~ 2.9		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.26A ~ 3.7A			7.8L x 7.0W x 5.0H



CTGS104F

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
10 μ H ~ 560 μ H	10 μ H ~ 82 μ H @ 2.52MHz; 100 μ H ~ 560 μ H @ 1.0kHz	0.05 ~ 1.9		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.32A ~ 2.38A			10.0L x 9.0W x 4.2H



CTGS105F

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
4.7 μ H ~ 1000 μ H	4.7 μ H @ 7.96MHz; 6.8 μ H @ 100kHz; 10 μ H ~ 82 μ H @ 2.52MHz; 100 μ H ~ 1000 μ H @ 1.0kHz	0.04 ~ 3.1		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	0.20A ~ 2.6A			10.0L x 9.0W x 5.4H

**CTGS137F**

Wire-wound Inductors

Description

SMD power inductor

Application Use

OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.5 μ H ~ 1000 μ H	100kHz	5.0m ~ 1600m		

Rated Current	Rated DC	Isat	Irms	Size (mm)
		1.0A ~ 20A	0.65A ~ 9.5A	13.0L x 13.0W x 7.0H

**CTUP3BF**

Wire-wound Inductors

Description

SMD power inductor

Application Use

DC/DC converters, computers, LCD displays, telecommunication equipment and PDA palm tops.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
0.47 μ H ~ 100 μ H	100kHz	2.5m ~ 265m		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	1.8A ~ 25.1A			19.5L x 13.3W x 6.9H

**CTIHSM4825F**

Wire-wound Inductors

Description

SMD molded high current inductors

Application Use

Excellent power line noise filters, filters for switching regulators power supplies, DC/DC converters, SCR and Triac controls, and RFI suppression.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
0.22 μ H ~ 1000 μ H	1.0kHz	0.008 ~ 6.9		

Rated Current	Rated DC	Isat	Irms	Size (mm)
0.24A ~ 7.0A				13.2L x 6.35W x 5.84H

**CTIHSM5832F**

Wire-wound Inductors

Description

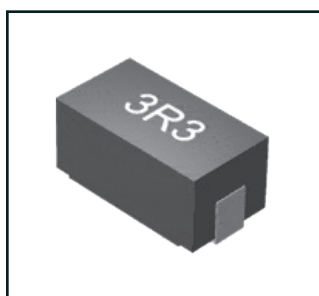
SMD molded high current inductors

Application Use

Excellent power line noise filters, filters for switching regulators power supplies, DC/DC converters, SCR and Triac controls, and RFI suppression.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 18000 μ H	1.0kHz	0.010 ~ 52.5		

Rated Current	Rated DC	Isat	Irms	Size (mm)
0.039A ~ 6.2A				16.2L x 8.13W x 7.24H

**CTP1330F**

Wire-wound Inductors

Description

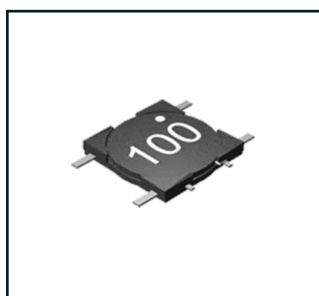
SMD molded high current inductors

Application Use

Excellent power line noise filters, filters for switching regulators power supplies, DC/DC converters, SCR and Triac controls, and RFI suppression.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1000 μ H	1.0kHz	0.035 ~ 11.16		

Rated Current	Rated DC	Isat	Irms	Size (mm)
	105mA ~ 2780mA			7.6~8.2L x 2.7~3.8W x 3.1~3.6H

**CTCMD4D06F**

Wire-wound Inductors

Description

SMD power inductors

Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
2.2 μ H ~ 47 μ H	100kHz	0.116 ~ 2.843		

Rated Current	Rated DC	Isat	Irms	Size (mm)
0.18A ~ 0.95A				5.8L x 6.3W x 1.2H



CTCMD5D13F

Wire-wound Inductors

Description

SMD power inductors

Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
3.3 μ H ~ 47 μ H	100kHz	0.081 ~ 0.875		
Rated Current	Rated DC	Isat	Irms	Size (mm)
0.35A ~ 1.25A				7.4L x 5.8W x 1.5H



CTRL6050F

Wire-wound Inductors

Description

SMD power inductors

Application Use

Switching regulators, power amplifiers, power supplies, noise / EMI / RFI filtering.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
10 μ H ~ 1200 μ H	1.0kHz	0.06 ~ 3.5		
Rated Current	Rated DC	Isat	Irms	Size (mm)
		0.54A ~ 6.0A	0.35A ~ 3.5A	14.0L x 11.7W x 8.4H



CTTSMD2110F

High Current Toroid Coil

Description

SMD toroid inductors

Application Use

Input/Output of DC/DC converters, industrial electronics, portable communications equipment, camcorders, LCD TV's, car radios

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1000 μ H	1.0kHz	2.0m ~ 244m		1.9A ~ 22.7A
Rated Current	Rated DC	Isat	Irms	Size (mm)
				30.5L x 27.9W x 13.21 ~ 15.75H



CTTSMD2120F

High Current Toroid Coil

Description

SMD toroid inductors

Application Use

Input/Output of DC/DC converters, industrial electronics, portable communications equipment, camcorders, LCD TV's, car radios

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.0 μ H ~ 1000 μ H	1.0kHz	2.0m ~ 215m		2.5A ~ 25.4A

Rated Current	Rated DC	Isat	Irms	Size (mm)
				30.5L x 27.9W x 19.56 ~ 22.1H



CTSPT-H

High Current Toroid Coil

Description

SMD toroid inductors

Application Use

For use in DC/DC converters, notebooks, computers and mobile appliances.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
2.8 μ H ~ 18 μ H	100kHz	0.0036 ~ 0.0123		

Rated Current	Rated DC	Isat	Irms	Size (mm)
				see spec sheet for Size (mm) details



CTSPT-L

High Current Toroid Coil

Description

SMD toroid inductors

Application Use

For use in DC/DC converters, notebooks, computers and mobile appliances.

Inductance	Ind. Test Freq.	DCR (Ω)	Current	IDC
1.1 μ H ~ 2000 μ H	100kHz	0.008 ~ 1.7		

Rated Current	Rated DC	Isat	Irms	Size (mm)
				see spec sheet for Size (mm) details

