



Sunlord

EXPERT IN PASSIVE PARTS

[2019-2020B]

Product Selection Guide

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CHIP BEAD

for Low Speed
Signal Line

GZ Series



Z@100MHz (Ω)



GZ0603



GZ1005



GZ1608



GZ2012



GZ3216

for High Speed
Signal Line

SZ Series



Z@100MHz (Ω)



SZ0603



SZ1005



SZ1608



SZ2012

for Power
Line

PZ Series



Z@100MHz (Ω)

Rated Current (A)



PZ0603



PZ1005



PZ1608



PZ2012



PZ3216



PZ4516

UPZ series



Z@100MHz (Ω)

Rated Current (A)

NEW



UPZ0603



UPZ1005

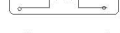


UPZ1608



UPZ2012

EPZ Series



Z@100MHz (Ω)

Rated Current(A)



EPZ1005-4030

SPH-Z Series Wire Wound

SPH3015HZ

Magnetic Shielded
(Low DCR)

Z@1MHz (Ω)

Rated Current (A)



3.3-150

0.49-2.9

for High
Frequency
Noise
Suppression

HZ Series



Z@100MHz (Ω)



HZ1005



HZ1608

HPZ Series



Z@100MHz (Ω)

Rated Current (A)



HPZ1005



HPZ1608

for Audio Line

MZAS Series



Z@100MHz (Ω)

Rated Current (A)

NEW



MZAS1005



MZAS1608



MZAS2016



MZAS3225

MZAH Series



Z@900MHz (Ω)

Rated Current (A)

NEW



MZAH1005



MZAH1608

100-4600

0.27-1.1

470

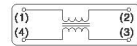
1.6

COMMON MODE FILTER

for USB2.0,
LVDS, MIPI

SDMM-H Series

Multilayer



Common Mode
Z@100MHz (Ω)



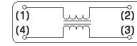
SDMM0806H

12-90

for HDMI

SDCW Series

Wire Wound



Common Mode
Z@100MHz (Ω)



SDCW
1210S



SDCW
1608S



SDCW
2012C



SDCW
2012



SDCW
2520S



SDCW
3216



SDCW
3225S



SDCW
4532S

20-360

25-220

67-180

30-1000

300-1000

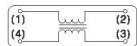
90-2200

80-1000

330-1400

SDCW-H Series

Wire Wound



Common Mode
Z@100MHz (Ω)



SDCW
1210H



SDCW
2012H



SDCW
2012CH

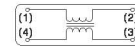
35-90

67-120

67-120

SDMM-U Series

Multilayer



SDMM
0806U

Common Mode
Z@100MHz (Ω)



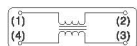
SDMM
0806U

12-90

for USB3.0

SDCW-U Series

Wire Wound



Common Mode
Z@100MHz (Ω)



SDCW
1210U



SDCW
2012U

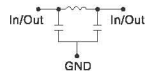
14-90

90

3-TERMINAL FILTER

for Signal Line

MFL Series



Cut-off Freq. (MHz)	400	150-500
20dB at Freq. (MHz)	800-2000	350-2000

MULTILAYER VARISTOR

for ESD Protection

SDV Series



MAX. Continuous DC Working Voltage (V)	5.5-26	5.5-48	5.5-30
C @ 0.5Vrms, 1MHz (pF)	0.5-360	0.5-820	18-2000

SDVL Series



MAX. Continuous DC Working Voltage (V)	14-100	14-100	14-100	14-100
Peak Current 8/20us (A)	200-500	400-1000	700-1600	800-1200

SDVL-HP Series NEW



MAX. Continuous DC Working Voltage (V)	5.5-100	5.5-100	5.5-100	5.5-100
Peak Current 8/20us (A)	400-1000	800-2000	1500-3500	4000-10000

SVMH Series



MAX. Continuous AC Working Voltage (V)	150-275	150-320	150-320	150-320	150-300
Peak Current 8/20us (A)	50-180	60-300	150-600	250-800	800-1500

for Over-voltage Protection

GLASS CERAMIC ESD SUPPRESSOR

for Ultra High Speed Line (USB3.0, HDMI 2.0, etc.)

GESD Series

High temperature
-55°C ~ +125°C

MAX. Continuous DC Working Voltage (V)	5.5-15	5.5-15	5.5-15
"C @ 1Vrms, 1MHz (pF)	0.05-0.10	0.05-0.10	0.05-0.10

LEADED VARISTOR

for AC/DC Lines

VPR Series

Max. Allowable AC Working Voltage (V)	11-460	11-510	11-680	50-680	50-680
Peak Current 8/20us (A)	100-400	250-1200	500-2500	4500	6500

CAPACITOR

Tantalum Capacitor

TC2 Series

MnO₂ Tantalum Capacitor

	TC211A/B/C/D/E (for Industrial)	TC212A/B/C/D/E (Low ESR)		TC311B/C/D/E/W/G2	TC312B/C/D/E/W/G2 (High Rated Voltage)
Rated Voltage (V)	2.5-50	2.5-50	Rated Voltage (V)	2.5-10	16-100
Capacitance (uF)	0.15-470	0.15-470	Capacitance (uF)	33-3300	10-330
ESR (Ω)	0.5-15	0.5-15	ESR (Ω)	0.035-0.09	0.045-0.13

Niobium Oxide Capacitor

NC Series

NC211A/B/C/D/E (for Industrial)

Rated Voltage (V)	2.5-16
Capacitance (uF)	1-680
ESR (Ω)	0.3-10

FOR HIGH FREQUENCY

Multilayer

SDCL Series

Ceramic

				
	SDCL0402	SDCL0603Q	SDCL1005	SDCL1608

Inductance (nH)	0.2-33	0.6-120	0.6-360	1.0-680
Rated Current (mA)	90-320	50-850	50-800	100-500

Multilayer

SDHL Series

Ceramic
High Frequency

		
	SDHL1005	SDHL1608

Inductance (nH)	1.0-100	10-180
Rated Current (mA)	100-500	150-500

Multilayer

HQ Series

Ceramic
High Q

						
	HQ0402Q	HQ0402H	UHQ0402H	HQ0603Q	HQ0603H	HQ1005

Inductance (nH)	0.4-39	0.2-27	1.5-13	0.6-150	0.6-47	1.0-15
Rated Current (mA)	120-1000	120-990	140-390	80-1100	130-1000	430-1000

Wire Wound

MWSD-C Series

Ceramic
High Q

			
	MWSD0603C	MWSD0804C	MWSD1005C

Inductance (nH)	1.0-15	0.8-56	0.8-120
Rated Current (mA)	230-900	130-1800	110-3150

Wire Wound

SDWL-C Series

Ceramic
High Q

						
	SDWL1608C	SDWL2012C	SDWL2520C	SDWL3216C	SDWL3225C	SDWL4532C

Inductance (nH)	1.6-560	2.2-1000	4.7-8200	3.3-1200	3.9-8600	1000-33000
Rated Current (mA)	70-1400	150-600	150-1000	300-1000	200-1000	145-480

Wire Wound

SDWL-CP/CH Series

Ceramic
High Q and
Large Current

				
	SDWL1005CP	SDWL1608CP	SDWL1005CH	SDWL2012CP

Inductance (nH)	1.0-51	1.8-390	56-220	2.6-820
Rated Current (mA)	360-2300	170-2100	160-330	180-2000

FOR SIGNAL LINE

Multilayer

SDFL Series

Ferrite

				
	SDFL1005	SDFL1608	SDFL2012	SDFL3216

Inductance (μH)	0.047-3.3	0.047-33	0.047-47	0.047-47
Rated Current (mA)	10-25	1-50	4-300	5-300

Multilayer for NFC

MCL-N Series

Ferrite

		
	MCL1005N	MCL1608N

Inductance (μH)	0.077-0.56	0.077-0.56
Rated Current (mA)	250-550	400-1100

WL-FS Series

Ferrite

	
	WL1608FS

Inductance (nH)	4.9-47000
Rated Current (mA)	70-2600

Wire Wound

MWSD-F Series

Ferrite

					
	MWSD0603F	MWSD0703F	MWSD1005F	MWSD1608F	MWSD2012F

Inductance (μH)	0.033-0.2	0.017-0.56	0.018-2.2	2.2-22	2.2-22
Rated Current (mA)	110-340	90-480	170-2200	200-580	340-1040

Wire Wound (Resin Molded)

SDWL-F Series

Ferrite

		
	SDWL2520F	SDWL3225F

Inductance (μH)	0.01-100	0.01-470
Rated Current (mA)	60-530	25-450

Wire Wound

SDWL-FW Series

Ferrite

				
	SDWL2012FW	SDWL2520FW	SDWL3216FW	SDWL3225FW

Inductance (μH)	0.27-68	0.33-10	1.5-18	0.12-12
Rated Current (mA)	40-350	300-700	130-320	140-450

Wire Wound Chip Antenna for NFMI

MTNF Series

Ferrite

					
	MTNF3540	MTNF3720	MTNF5520	MTNF6030	MTNF6040

L x W x H(mm)	3.5x4.0x2.0	3.7x2.0x1.8	5.5 x 2.0 x 2.0	6.2 x 3.0 x 2.0	6.2 x 4.0 x 2.0
Inductance (nH)	3.7	3.8	3.7	3.7	3.7
Q	90	40	50	50	50

FOR POWER LINE

Multilayer

MCL Series
Magnetic Shielded

MCL1608



MCL2012

Inductance (μH)

0.1-10

0.1-10

Rated Current (mA)

50-700

60-1000

Multilayer

MCL-A Series
Magnetic Shielded

MCL2012A



MCL2016A



MCL2520A

Inductance (μH)

1.0-4.7

1.0-4.7

1.5-4.7

Rated Current (mA)

180-450

100-900

250-600

Multilayer

MPH Series
Magnetic Shielded

MPH1608



MPH2012



MPH2016



MPH2520

Height (mm)

0.55/0.95

0.55/0.6/1.0/1.4

1.0/1.2

1.0/1.2

Inductance (μH)

0.22-4.7

0.22-10

0.47-10

0.47-10

Rated Current (mA)

65-1200

110-1200

170-1350

210-1750

Wire Wound
(Resin Molded)SDWL-FD Series
No Magnetic Shielded

SDWL2520FD



SDWL3225FD

Inductance (μH)

1.0-33

1.0-330

Rated Current (mA)

120-475

70-1000

Wire Wound

SWPA Series
Magnetic Shielded
(Single Structure Type)

SWPA2520



SWPA30



SWPA40



SWPA50



SWPA60



SWPA80

Height (mm)

1.0/1.2

1.0/1.2/1.5

1.0/1.2/1.8/2.0/2.6/3.0

1.2/2.0/4.0

2.0/2.8/4.0/4.5

4.0/5.0/6.0/6.5

Inductance (μH)

0.22-33

0.22-220

0.22-680

0.22-10000

0.47-15000

0.82-10000

Rated Current (mA)

330-2700

160-3250

140-5500

65-6500

60-6500

90-7500

Wire Wound

SPH Series
Magnetic Shielded
(Low DCR)

SPH2016H/U



SPH2020



SPH2520



SPH30



SPH40



SPH80

Height (mm)

1.0

1.2

1.0/1.2

1.0/1.2/1.5

1.2/1.8/2.0/3.0

3.0

Inductance (μH)

0.05-10

0.16-33

0.16-82

0.1-100

0.1-330

1.0-47

Rated Current (mA)

450-3650

300-2500

210-4050

230-4600

200-4600

1100-6200

Wire Wound

SWCB Series
No Magnetic Shielded

SWCB1305-1807

Height (mm)

5.5-12.0

Inductance (μH)

1.0-1000

Rated Current (mA)

560-7100

Wire Wound

SWCC Series
No Magnetic Shielded

SWCC0603

Height (mm)

3.0

Inductance (μH)

1.0-100

Rated Current (mA)

300-2900

Wire Wound

SWRB Series
Magnetic Shielded
(Sleeve Type)

SWRB0603-1207A



SWRB1204S/05S/07S

Height (mm)

3.0-7.8

5.0/6.0/8.0

Inductance (μH)

1.2-680

1.0-1000

Rated Current (mA)

200-8200

480-10000

Wire Wound

SWRH Series
Magnetic Shielded
(Sleeve Type)

SWRH-DR



SWRH-DS



SWRH-DC

Height (mm)

1.3/1.6/2.1

1.8-3.2

3.0/4.0/4.5

Inductance (μH)

1.2-47

1.0-1000

1.5-100

Rated Current (mA)

200-1850

150-5200

750-6000



SWRH-B



SWRH-C

Height (mm)

3.0-8.0

3.0/4.0/5.0

Inductance (μH)

2.2-1000

1.0-820

Rated Current (mA)

190-10000

480-6500

FOR POWER LINE

Wire Wound

WPN Series Magnetic Shielded (Large Isat)

					
WPN2012	WPN2016	WPN2520	WPN30	WPN40	
Height (mm)	1.0	0.8/1.0	1.0/1.2	1.2	1.2/1.8/2.0
Inductance (μH)	0.24~10	0.12~22	0.16~10	0.33~10	0.22~22
Rated Current (mA)	2800~4800	650~5900	800~10000	1000~4200	900~8200

Wire Wound (Mini Molded)

MWTC Series Magnetic Shielded (Large Current and Low Loss) NEW

			
MWTC2012	MWTC2016	MWTC2520	
LxWxH (mm)	2.0x1.2x0.65/0.8/1.0	2.0x1.6x0.65/0.8/1.0	2.5x2.0x1.0
Inductance (μH)	0.11~2.2	0.24~4.7	0.47~4.7
Rated Current (mA)	1600~6400	1300~4400	1450~4300

Wire Wound (Molded)

MWSC Series Magnetic Shielded (Large Current and Low Loss)

		
MWSC0624	MWSC0630	
LxWxH (mm)	6.6x7.1x2.4	6.6x7.1x3.0
Inductance (μH)	0.22~22	0.22~22
Rated Current (mA)	1800~18000	2000~21000

Wire Wound

WPZ Series Magnetic Shielded (Ultra Large Isat)

						
WPZ060605	WPZ070705	WPZ090610	WPZ100612	WPZ100705	WPZ100807	
LxWxH (mm)	6.4x6.4x5.3	7.0x7.0x5.0	9.6x6.4x10.0/ 9.6x6.6x10.0	10.0x6.0x12.0	10.2x7.0x5.0/ 10.25x7.0x5.2	10.3x8.0x7.0/ 10.4x8.0x7.5
Inductance (nH)	100~200	72~150	70~280	70~330	100~300	115~330
Rated Current (A)	24	34~37	36~84	35~70	21~40	28~60

						
WPZ101003	WPZ101006	WPZ110608	WPZ120808	WPZ130803	WPZ161203	
LxWxH (mm)	10.0x10.0x3.35	10.0x10.0x6.0	10.6x6.3x8.1	12.0x8.0x8.1	13.5x8.5x2.9	15.3x11.3x3.0
Inductance (nH)	100~300	100~500	100~200	150~250	110~440	160
Rated Current (A)	26~31	26~31	40	50	16~30	28.5

TRANSFORMER

PCB Planar Transformer

TPP Series

						
TPPED14	TPPED21	TPPEE21	TPPED18	TPPER20	TPPER25	
Dimensions LxWxH (mm)	14x24x8.0	21x31x10	21x65x13	20x25x13	21x30x9	26x33x10
Power (W), Ref.	15	45	500	18	30	65
Application	AC-DC, PD	AC-DC, PD	Flyback, Lighting	AC-DC, PD	AC-DC, PD	AC-DC, PD

Winding Transformer

TWS/TWP Series

					
TWS/TWPEP07	TWS/TWPEP09	TWS/TWPEP12	TWS/TWPEP13	TWPEE16	
Dimensions LxWxH (mm)	8.0x7.0x10	10x10x11	16x13x11	18x14x13	26.5x21.0x12.0
Power (W), Ref.	3	5	10	15	20
Application	xDSL, PoE	xDSL, PoE	xDSL, PoE	xDSL, PoE	AC-DC

Ring Core Transformer

RTSB Series NEW

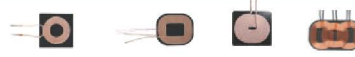
	
RTSB	
Dimensions LxWxH (mm)	7x4x3
Power (W), Ref.	<3
Application	DC-DC

WIRELESS CHARGING

Coil

MQQ Series
Tx&Rx Coil

Customized



Rx, L*W: 6*6mm Min.
H=0.25mm Min.

Standard
Dimensions and
Ls Inductance

Tx, Qi: A2~A31, MP-A1~MP-A6

Depending on Standard or Customer's Requirement

Sheet

MQF Series
Ferrite Sheet

Customized



MQF

Ferrite Sheet Thickness (mm)

0.08/0.10/0.12/0.14
/0.24/0.34/0.44

Application Freq. (MHz)

0.1~6.78

Magnetic Permeability (u')

150±15%/650±20%

Magnetic Permeability (u'')

5/15 Max.

MQN Series
Nano Crystalline Sheet

Customized



MQN

Nano Crystalline Thickness (mm)

0.02

Application Freq. (MHz)

0.1~0.2

Magnetic Permeability (u')

500±10%~1000±20%

Magnetic Permeability (u'')

40/50/70/100

NFC PRODUCT

Sheet

FS/DC Series
Ferrite Sheet

Customized



FS/DC

Thickness (mm)

0.04/0.06/0.08/0.10/0.12/0.14/0.19/0.30/0.40/0.50

Application Freq. (MHz)

13.56

Magnetic Permeability (u')

135/150/160

Magnetic Permeability (u'')

5

Antenna

MNFA Series
Ferrite Flexible Antenna

Customized



MNFA

Thickness (mm)

0.12~0.3

Application Freq. (MHz)

13.56

SMD POLYMER PTC THERMISTOR

Thermistor

for Overcurrent Protection

SPP Series



SPP1608P



SPP2012P



SPP3216P



SPP3225P



SPP4532P



SPP7550P

I_H @25°C (A)

0.10~0.50

0.10~1.10

0.05~2.00

0.05~2.60

0.10~3.00

0.30~3.00

R_{1max} (Ω)

6.00~0.80

7.50~0.21

40.0~0.12

50.0~0.05

15.0~0.06

4.30~0.055

SPP-L Series
Low-Loss



SPP2012PL



SPP3216PL



SPP3225PL

I_H @25°C (A)

0.75~3.00

1.10~7.50

1.10~7.50

R_{1max} (Ω)

0.16~0.03

0.10~0.009

0.06~0.009

MULTILAYER NTC THERMISTOR

Temperature Sensing NTC

SDNT Series



SDNT0603



SDNT1005



SDNT1608



SDNT2012

Resistance@25°C (kΩ)

0.1~220

4.7~470

2.0~220

3.3~1300

25°C/50°C B Constant (K)

3380~4700

3380~4250

3380~4300

3450~4700

PRINTED CIRCUIT BOARD

Printed Circuit Board

PCB

Customized

HDI Board



4, 6, 8, 10 Layers etc.

Through-hole Board



4, 6, 8, 10 Layers etc.

Stamp Hole Module Board



HDI or TH Board for Wi-Fi, BT, etc

FINE CERAMIC PRODUCTS

Fine Ceramic Products

Zirconia Fine Ceramic

Customized

Wearable Ceramic Shell



Color & size can be customized

Back Cover for Phone, wearable device



Color & size can be customized

RF PRODUCT (Filter)

Multilayer Chip LC Filter

SLFB Series Band-pass

					
Center Freq. (MHz)	SLFB15 2450	SLFB18 1910-5500	SLFB21 2450-5500	SLFB22 1917-2450	SLFB32 2450

SLFL Series Low-pass

					
Center Freq. (MHz)	SLFL06 915	SLFL15 870-2700	SLFL18 960-5950	SLFL21 902-5500	SLFL43 1200

Multilayer Chip Balun

SLBL Series

				
Center Freq. (MHz)	SLBL06 770-2500	SLBL15 770-2450	SLBL18 2300-2700	SLBL21 2400

Multilayer Chip Balance Filter

SLFBF Series

	
Center Freq. (MHz)	SLFBF21 2450

Multilayer Chip Diplexer

SLFD Series Diplexer

			
Frequency Range (MHz)	SLFD15 2450-5950	SLFD18 698-5950	SLFD21 698-5950

Multilayer Chip Triplexer

SLFT Series Triplexer

	
Frequency Range (MHz)	SLFT21 1560-5950

Multilayer Coupler

SLCP Series Coupler

			
Center Freq. (MHz)	SLCP18 2700	SLCP21 2000-3500	SLCP53 850-2500

RF PRODUCT (Antenna)

Multilayer

SLDA Series 2.45GHz

							
Center Freq. (GHz)	SLDA21 2.45	SLDA31 2.4~2.8	SLDA52 2.51~2.54	SLDA62 2.64	SLDA72 2.47	SLDA81 3.01	SLDA92 2.66
Band Width (MHz)	≥100	≥100	≥200	≥200	≥200	≥200	≥200
Peak Gain (dBi)	1	0.5~2.5	2.5	2.6	2.7	2.0	3.0

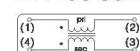
BALUN TRANSFORMER

Wire Wound Chip Balun Transformer

BW21S Series

		
Freq. Range (MHz)	BW21S 45-2150	BW21C 13.56
Port Impedance (Ω)	50/50-75/75	25/25

BW43S Series



	
Inductance @50MHz(uH)	BW43S 1.00-1.25
Port Impedance (Ω)	50/50