Sunlord
EXPERT IN E – PARTS

Product Selection Guide

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深圳顺络电子股份有限公司
Shenzhen Sunlord Electronics Co., Ltd.

地址: 中国深圳市龙华区观光路观澜大富苑顺络工业区
Add: Sunlord Industrial Park,Guanlan Da Fu Yuan,Guan Guang Road,Longhua,Shenzhen,China
Tel: 86-755-2983 2333
Fax: 86-755-8226 9029
E-mail: sunlord@sunlordinc.com

EMC Components

CHIP BEAD

for Low Speed Signal Line

GZ Series

	GZ0603	GZ1005	GZ1608	GZ2012	GZ3216
Z@100MHz (Ω)	5-1000	0-1800	0-2500	0-2500	0-1200

for High Speed Signal Line

SZ Series

	SZ0603	SZ1005	SZ1608	SZ2012
Z@100MHz (Ω)	5-600	0-1800	0-2700	0-2700

for Power Line

PZ Series

	PZ0603	PZ1005	PZ1608	PZ2012	PZ3216	PZ4516
Z@100MHz (Ω)	60-1000	0-600	0-600	30-600	19-1000	60-1000
Rated Current (A)	0.2-0.5	0.45-1.8	0.5-3.0	0.8-4.0	0.5-6.0	2.0-6.0

UPZ series

	NEW UPZ0603	UPZ1005	UPZ1608	UPZ2012
Z@100MHz (Ω)	22-80	0-220	22-600	22-1000
Rated Current (A)	1.0-1.8	0.9-2.2	1.0-6.0	1.5-6.0

EPZ Series

	EPZ1005-4030
Z@100MHz (Ω)	10-220
Rated Current(A)	1.2-10.0

for High Frequency Noise Suppression

HZ Series

	NEW HZ0603	HZ1005	HZ1608
Z@100MHz (Ω)	120-600	120-1800	180-1000

HPZ Series

	NEW HPZ0603	HPZ1005	HPZ1608
Z@100MHz (Ω)	25-50	120-220	100-1500
Rated Current (A)	0.4-0.6	0.5-1.1	0.15-2.0

for Audio Line

MZAS Series

	MZAS1005	MZAS1608	MZAS2016	MZAS3225
Z@100MHz (Ω)	70-1000	60-700	400	20-40
Rated Current (A)	0.23-0.90	0.8-1.3	2	10

MZAH Series

	MZAH1005	MZAH1608
Z@900MHz (Ω)	100-4600	470
Rated Current (A)	0.27-1.1	1.6

COMMON MODE FILTER

for USB2.0, LVDS, MIPI

SDMM-H Series
Multilayer

	SDMM0806H
Common Mode Z@100MHz (Ω)	12-90

SDCW Series
Wire Wound

	SDCW 1210S	SDCW 1608S	SDCW 2012C	SDCW 2012	SDCW 2520S	SDCW 3216	SDCW 3225S	SDCW 4532S
Common Mode Z@100MHz (Ω)	20-360	25-220	67-180	30-1000	300-1000	90-2200	80-1000	330-1400

for HDMI

SDCW-H Series
Wire Wound

	SDCW 1210H	SDCW 2012H	SDCW 2012CH
Common Mode Z@100MHz (Ω)	35-90	67-120	67-120

for USB3.0

SDCW-U Series
Wire Wound

	SDCW 1210U	SDCW 2012U
Common Mode Z@100MHz (Ω)	14-90	90

SDMM-U Series
Multilayer

	NEW SDMM 0605U	SDMM 0806U
Common Mode Z@100MHz (Ω)	12-25	12-90

3-TERMINAL FILTER

for Signal Line

MFL Series

In/Out — In/Out, GND

	MFL1608SP	MFL2012SP
Cut-off Freq. (MHz)	400	150-500
20dB at Freq. (MHz)	800-2000	350-2000

MULTILAYER VARISTOR

for ESD Protection

SDV Series

	SDV0603 (NEW)	SDV1005	SDV1608	SDV2012
MAX.Continuous DC Working Voltage (V)	5.5-9	5.5-26	5.5-48	5.5-30
C@ 0.5Vrms, 1MHz (pF)	0.5-1	0.5-360	0.5-820	18-2000

for Over-voltage Protection

SDVL-HS Series NEW

	SDVL1608-HS	SDVL2016-HS	SDVL3216-HS	SDVL3225-HS	SDVL4532-HS	SDVL5650-HS
MAX.Continuous DC Working Voltage (V)	9-100	9-150	9-100	9-100	9-150	9-150
Peak Current 8/20us (A)	20-150	100-700	150-500	200-1500	500-3000	800-8000

SVMH Series

	SVMH2016KA	SVMH3216KA	SVMH3225KA	SVMH4532KA	SVMH5650KA
MAX.Continuous AC Working Voltage (V)	150-320	150-320	150-320	150-320	150-300
Peak Current 8/20us (A)	50-180	100-300	150-600	250-1200	800-1500

GLASS CERAMIC ESD SUPPRESSOR

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

GESD Series
High temperature
-55℃ ~ +125℃

	GESD0603	GESD1005	GESD1608
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

CAPACITOR

Tantalum Capacitor

TC2 Series
MnO2 Tantalum Capacitor

	TC211A/B/C/D/E (for Industrialr)	TC212A/B/C/D/E (Low ESR)
Rated Voltage (V)	2.5-50	2.5-50
Capacitance (uF)	0.15-470	0.15-470
ESR (Ω)	0.5-15	0.5-15

TC3 Series
Polymer Tantalum Capacitor

	TC311B/C /D/E/W/G2	TC312B/C/D/E/W/G2 (High Rated Voltage)
Rated Voltage (V)	2.5-10	16-100
Capacitance (uF)	33-3300	10-330
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	80-850	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	NEW UHQ0402H	HQ0603Q	HQ0603H
Inductance (nH)	0.2-56	0.2-33	0.2-20	0.6-150	0.6-47
Rated Current (mA)	100-1000	120-990	140-990	80-1100	130-1000

Wire Wound — MWSD-C Series
Ceramic
High Q

	NEW MWSD0603C	NEW MWSD0804C	MWSD1005C	MWSD1005CP	MWSD1005CH
Inductance (nH)	1.0-15	0.8-56	0.8-120	1.0-51	56-220
Rated Current (mA)	230-900	130-1800	110-3150	360-2300	160-330

Wire Wound — SDWL-C Series
Ceramic
High Q

	SDWL1608C	SDWL2012C	SDWL2520C	SDWL3216C	SDWL3225C	SDWL4532C
Inductance (nH)	1.6-560	2.2-4700	3.6-22000	3.3-1200	3.9-22000	24-33000
Rated Current (mA)	70-1150	30-600	70-1000	300-1000	100-1000	145-1000

Wire Wound — SDWL-CP Series
Ceramic
High Q and
Large Current

	SDWL1608CP	SDWL2012CP
Inductance (nH)	1.8-390	2.6-820
Rated Current (mA)	170-2100	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	0.077-0.82
Rated Current (mA)	250-550	300-1100

WL-FS Series
Ferrite

	WL1608FS
Inductance (nH)	4.9-47000
Rated Current (mA)	70-2600

Wire Wound — MWSD-F Series NEW
Ferrite

	MWSD0603F	MWSD0703F	MWSD1005F	MWSD1608FE	MWSD2012FE
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

	MTNF5520	MTNF6030	MTNF6040
L x W x H(mm)	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	3.7	3.7
Q	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	1.0/1.2/2.0/2.8/4.0/4.5	4.0/6.0/6.5
Inductance (μH)	0.47–22	0.22–150	0.24–680	0.22–680	0.47–680	0.82–680
Rated Current (mA)	380–2150	180–3000	140–5200	250–6500	270–6300	460–7000

Wire Wound

SPH Series
Magnetic Shielded
(Low DCR)

	SPH2016H/U	SPH2520	SPH30	SPH40
Height (mm)	1.0	1.0/1.2	1.0/1.2/1.5	1.2/1.8/2.0/3.0
Inductance (μH)	0.05–10	0.16–82	0.22–47	0.1–330
Rated Current (mA)	450–3650	220–4050	230–4600	200–4600

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

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
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	SWRH-B	SWRH-C
Height (mm)	1.3/1.6/2.1	1.8-3.2	3.0/4.0/4.5	3.0-8.0	3.0/4.0/5.0
Inductance (μH)	1.2–47	1.0–1000	1.5–100	2.2–1000	1.0–820
Rated Current (mA)	200–1850	150–5200	750–6000	190–10000	480–6500

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

WPG Series NEW
Magnetic Shielded
(Large Isat)

	WPG2012	WPG2016	WPG2520
Height (mm)	1.0	1.0	1.0
Inductance (μH)	0.11-1.0	0.24-2.2	0.24-4.7
Rated Current (mA)	2200-5500	2150-4900	1600-5150

FOR POWER LINE

Wire Wound

WT Series NEW
Magnetic Shielded
(Large Isat)

	WTH0415T	WTC0420T	WTX0430T
LxWxH (mm)	4.0×4.0×1.5	4.0×4.0×2.1	4.0×4.0×3.1
Inductance (μH)	0.33-1.0	0.33-1.5	0.33-6.8
Rated Current (mA)	7.2-13.9	6.3-15.7	4.1-18.8

Wire Wound (Mini Molded)

MWTC Series
Magnetic Shielded
(Large Current and Low Loss)

	MWTC2012	MWTC2016	MWTC2520
LxWxH (mm)	2.0×1.2×0.8/1.0	2.0×1.6×0.8/1.0	2.5×2.0×1.0
Inductance (μH)	0.47–1.0	0.24–4.7	1.0–3.3
Rated Current (mA)	1100–4500	1300–5000	1900–3400

Wire Wound

WPZ Series
Magnetic Shielded
(Ultra Large Isat)

	WPZ050507	WPZ070705	WPZ090608	WPZ090610	WPZ090704
LxWxH (mm)	5.2×5.2×6.5	7.0×7.0×5.0	9.6×6.4×8.0	9.6×6.4×10.0	9.5×7.4×4.0
Inductance (nH)	55–150	72–150	100–300	70–280	70–175
Rated Current (A)	27-50	34–37	32.5–51	36–84	31–39

	WPZ090709	WPZ100612	WPZ100705	WPZ100807	WPZ110608
LxWxH (mm)	9.5×7.5×9.0	10.0×6.0×12.0	10.2×7.0×5.0	10.3×8.0×7.0/ 10.3×8.0×7.5	10.6×6.3×8.1
Inductance (nH)	100–300	`70–470	100–300	120–330	100–200
Rated Current (A)	26–50	19–70	21–40	28–61	40

	WPZ120808	WPZ130803	WPZ151506
LxWxH (mm)	12.0×8.0×8.1	13.5×8.5×3.0	15×15.6×5.6
Inductance (nH)	150–250	110–440	180
Rated Current (A)	50	16–30	49

TRANSFORMER

PCB Planar Transformer

TPP Series Customized

	TPPED14	TPPED21	TPPEE21	TPPED18	TPPER20	TPPER25	TPPED22 NEW
Dimensions LxWxH (mm)	14×24×8.0	21×31×10	21×65×13	20×25×13	21×30×9	26×33×10	24×26×13
Power (W), Ref.	15	45	500	18	30	65	25
Application	AC–DC, PD	AC–DC, PD	Flyback, Lighting	AC–DC, PD	AC–DC, PD	AC–DC, PD	AC-DC, PD

Winding Transformer

TWS/TWP Series Customized

	TWS/TWPEP07	TWS/TWPEP09	TWS/TWPEP12	TWS/TWPEP13	TWPEE16	TWPEE16 NEW
Dimensions LxWxH (mm)	8.0×7.0×10	10×10×11	16×13×11	18×14×13	26.5×21×12	26.5×21×16
Power (W), Ref.	3	5	10	15	20	20
Application	xDSL, PoE	xDSL,PoE	xDSL, PoE	xDSL,PoE	AC–DC	AC–DC

Ring Core Transformer

RTSB Series Customized

	RTSB
Dimensions LxWxH (mm)	7×4×3
Power (W), Ref.	<3
Application	DC–DC

Coils / Inductors

WIRELESS CHARGING

Sheet

MQF Series (Customized)
Ferrite Sheet

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 (Customized)
Nano Crystalline Sheet

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 (Customized)
Ferrite Sheet

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-WFB Series (Customized)
Ferrite Flexible Antenna

MNFA

Thickness (mm)	0.12-0.3
Application Freq. (MHz)	13.56

Thermistor

SMD POLYMER PTC THERMISTOR

for Overcurrent Protection

SPP Series

	SPP1608P	SPP2012P	SPP3216P	SPP3225P	SPP4532P	SPP7550P
I_H @25℃ (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
$R1_{max}$ (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℃ (A)	0.75-3.00	1.10-7.50	1.10-7.50
$R1_{max}$ (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℃ (kΩ)	10-100	6.8-220	2.2-220	4.7-220
25℃/50℃ B Constant (K)	3380-4250	3380-4250	3380-4300	3450-4300

RF Components

RF PRODUCT (Filter)

Multilayer Chip LC Filter

SLFB Series – Band-pass

	SLFB15	SLFB18	SLFB19	SLFB21	SLFB22	SLFB32
Center Freq. (MHz)	2450	1910–5890	2450	2450–5410	3600–4950	1920–4900

SLFL Series – Low-pass

	SLFL06	SLFL15	SLFL18	SLFL21
Cut-off Freq.	915	787–7125	787–5500	902–5500

Multilayer Chip Balun

SLBL Series – Balun

	SLBL06	SLBL15	SLBL18	SLBL21
Frequency Range (MHz)	698–2700	758–2025	699–6000	2400–8000

Multilayer Chip Balance Filter

SLFH Series – High-pass

	SLFH15	SLFH18
Start Freq. (MHz)	5150	1358

Multilayer Chip Diplexer

SLFD Series – Diplexer

	SLFD15	SLFD18	SLFD21	SLFD22
Frequency Range (MHz)	2400–7125	698–5950	698–5950	698–5950

Multilayer Chip Triplexer

SLFT Series – Triplexer

	SLFT21
Frequency Range (MHz)	1560–5950

Multilayer Coupler

SLCP Series – Coupler

	SLCP06	SLCP18	SLCP21	SLCP31
Frequency Range (MHz)	2400–5950	2400–7125	700–8000	210–728

RF PRODUCT (Antenna)

Multilayer

SLDA Series – 2.45GHz

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

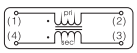
BALUN TRANSFORMER

Wire Wound Chip Balun Transformer

BW Series

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

BW43S Series



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

RF PRODUCT (Power Resistor)

VRP Series NEW

	VRP31	VRP52	VRP85
Freq. Range (MHz)	0~6000	0~6000	0~6000
Power (W)	5~200	5~200	5~200
Impedance	50	50	50