

Product Selection Guide

[2021-2022 B]

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

represented by











































alfatec GmbH & Co. KG
Meckenloher Straße 11
91126 Rednitzhembach
Germany

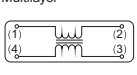


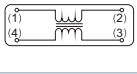








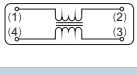



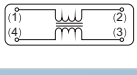


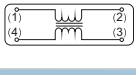


Tel.: +49 (0)9122 - 97 96 0
Fax: +49 (0)9122 - 97 96 50
E-Mail: info@alfatec.de
Web: www.alfatec.de



CHIP BEAD

For Low Speed Signal Line	GZ Series							
		Z@100MHz (Ω)	GZ0603 5-1000	GZ1005 0-1800	GZ1608 0-2500	GZ2012 0-2500	GZ3216 0-1200	
For High Speed Signal Line	SZ Series							
		Z@100MHz (Ω)	SZ0603 5-600	SZ1005 0-1800	SZ1608 0-2700	SZ2012 0-2700		
For Power Line	PZ Series							
		Z@100MHz (Ω) Rated Current (A)	PZ0603 60-1000 0.2-0.5	PZ1005 0-600 0.45-1.8	PZ1608 0-600 0.5-3.0	PZ2012 30-600 0.8-4.0	PZ3216 19-1000 0.5-6.0	PZ4516 60-1000 2.0-6.0
For High Frequency Noise Suppression	UPZ Series		 NEW				EPZ Series	
		Z@100MHz (Ω) Rated Current (A)	UPZ0603 22-80 1.0-1.8	UPZ1005 0-220 0.9-2.2	UPZ1608 22-600 1.0-6.0	UPZ2012 22-1000 1.5-6.0	EPZ Series Z@100MHz (Ω) Rated Current(A)	EPZ1005-4030 10-220 1.2-10.0
For High Frequency Noise Suppression	HZ Series		 NEW					
		Z@100MHz (Ω)	HZ0603 120-600	HZ1005 120-1800	HZ1608 180-1000			
For High Frequency Noise Suppression	HPZ Series		 NEW					
		Z@100MHz (Ω) Rated Current (A)	HPZ0603 25-50 0.4-0.6	HPZ1005 120-220 0.5-1.1	HPZ1608 100-1500 0.15-2.0			
For Audio line	MZAS Series							
		Z@100MHz (Ω) Rated Current (A)	MZAS1005 70-1000 0.23-0.90	MZAS1608 60-700 0.8-1.3	MZAS2016 400 2	MZAS3225 20-680 4-10		
For Audio line	MZAH Series							
		Z@900MHz (Ω) Rated Current (A)	MZAH1005 100-4600 0.27-1.1	MZAH1608 470 1.6				

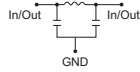
COMMON MODE FILTER

For USB2.0, LVDS, MIPI	SDMM-H Series	Multilayer									
		Common Mode Z@100MHz (Ω)		SDMM0806H 12-90	SDMM0906H 30						
For HDMI	SDCW Series	Wire Wound									
		Common Mode Z@100MHz (Ω)		SDCW 1210S 20-360	SDCW 1608S 25-220	SDCW 2012C 67-180	SDCW 2012 30-1000	SDCW 2520S 300-1000	SDCW 3216 90-2200	SDCW 3225S 80-1000	SDCW 4532S 330-1400
For HDMI	SDCW-H Series	Wire Wound									
		Common Mode Z@100MHz (Ω)		SDCW 1210H 35-90	SDCW 2012H 67-120	SDCW 2012CH 67-120					
For USB3.0	SDCW-U Series	Wire Wound									
		Common Mode Z@100MHz (Ω)		SDCW 1210U 14-90	SDCW 2012U 90						
For USB3.0	SDMM-U Series	Multilayer		 NEW							
		Common Mode Z@100MHz (Ω)		SDMM 0605U 12-25	SDMM 0806U 12-90						

3-TERMINAL FILTER

For Signal Line

MFL Series



MFL2012SP

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

MULTILAYER VARISTOR

For ESD Protection

SDV Series



MAX. Continuous DC Working Voltage (V)
C@ 0.5Vrms, 1MHz (pF)

NEW



SDV0603



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	0.5-360	18-1200

SDVL-HS Series **NEW**



MAX. Continuous DC Working Voltage (V)
Peak Current 8/20us (A)



SDVL1608-HS



SDVL2016-HS



SDVL3216-HS



SDVL3225-HS

MAX. Continuous DC Working Voltage (V)	9-100	9-150	9-100	9-100
Peak Current 8/20us (A)	20-150	100-700	150-500	200-1500



SDVL4532-HS



SDVL5650-HS

MAX. Continuous DC Working Voltage (V)	9-150	9-150
Peak Current 8/20us (A)	500-3000	800-8000

SVMH Series



MAX. Continuous AC Working Voltage (V)
Peak Current 8/20us (A)



SVMH2016KA



SVMH3216KA



SVMH3225KA



SVMH4532KA

MAX. Continuous AC Working Voltage (V)	150-320	150-320	150-320	150-320
Peak Current 8/20us (A)	50-180	100-300	150-600	250-1200

for Over-voltage Protection

CAPACITOR

Tantalum Capacitor

TC2 Series

MnO2 Tantalum Capacitor



TC211A/B/C/D/E (for Industrial)



TC212A/B/C/D/E (Low ESR)

TC3 Series

Polymer Tantalum Capacitor



TC311B/C/D/E/W/G2



TC312B/C/D/E/W/G2 (High Rated Voltage)

Rated Voltage (V)	2.5-50	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

MULTILAYER NTC THERMISTOR

Temperature Sensing NTC

SDNT Series



SDNT0603



SDNT1005



SDNT1608



SDNT2012

Resistance@25°C (kΩ)	10-100	6.8-220	2.2-220	4.7-220
25°C/50°C B Constant (K)	3380-4250	3380-4250	3380-4300	3450-4300

FOR HIGH FREQUENCY

Multilayer	SDCL Series Ceramic						
	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						
	Inductance (nH)	1.0-100	10-180				
	Rated Current (mA)	100-500	150-500				
Multilayer	HQ Series Ceramic High Q			NEW			
	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	NEW				
	Inductance (nH)	1.0-15	0.8-56	0.8-270	1.0-51	56-220	
	Rated Current (mA)	230-900	130-1800	100-1000	360-2300	160-330	
Wire Wound	SDWL-C Series Ceramic High Q						
	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/CH Series Ceramic High Q and Large Current						
	Inductance (nH)	1.8-390	2.6-820				
	Rated Current (mA)	170-2100	180-2000				

FOR SIGNAL LINE



Multilayer	SDFL Series Ferrite					
	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					
	Inductance (μH)	0.077-0.56	0.077-0.82		4.9-47000	
	Rated Current (mA)	250-550	300-1100		70-2600	
Wire Wound	MWSD-F Series NEW Ferrite					
	Inductance (μH)	0.033-0.2	0.027-0.56	0.018-2.2	1.0-47	2.2-100
	Rated Current (mA)	110-340	90-480	170-2200	100-700	180-1040
Wire Wound (Resin Molded)	SDWL-F Series Ferrite					
	Inductance (μH)	0.01-100	0.01-470	0.1-1000		
	Rated Current (mA)	60-530	25-450	30-800		
Wire Wound	SDWL-FW Series Ferrite					
	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					
	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)	0.22-10	0.22-10	0.47-10	0.47-10
Rated Current (mA)	60-1350	110-1200	170-1350	210-1750

Wire Wound (Resin Molded)

SDWL-FD Series







No Magnetic Shielded

			
	SDWL2520FD	SDWL3225FD	SDWL4532FD
Inductance (μH)	1.0-33	1.0-330	1.0-330
Rated Current (mA)	120-475	70-1000	90-1050

Wire Wound

SWPA Series





Magnetic Shielded
(Single Structure Type)

				
	SWPA2520	SWPA30	SWPA40	SWPA50
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
Inductance (μH)	0.47-22	0.22-150	0.24-680	0.22-680
Rated Current (mA)	380-2150	180-3000	140-5200	250-6500
				
	SWPA60	SWPA80		
Height (mm)	1.0/1.2/2.0/2.8/4.0/4.5	4.0/6.0/6.5		
Inductance (μH)	0.47-680	0.82-680		
Rated Current (mA)	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/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	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

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

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




Wire Wound
(Molded)

WT Series **NEW**
Magnetic Shielded
(Large Current and
Low Loss)

	 WTH0415T	 WTC0420T	 WTX0430T
L×W×H (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 (A)	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
L×W×H (mm)	2.0×1.2×0.8/1.0	2.0×1.6×0.8/1.0	2.5×2.0×0.8×1.0
Inductance (µH)	0.33-1.0	0.24-4.7	0.47-2.2
Rated Current (mA)	1100-4500	1300-5000	1900-3400

Wire Wound

WPZ Series
Magnetic Shielded
(Ultra Large Isat)

	 WPZ04044S1	 WPZ05057S1	 WPZ0707	 WPZ09068S1	 WPZ0906A
L×W×H (mm)	4.1×4.0×4.0	5.2×5.2×6.5	7.3×6.8×3.8/4.2 7.0×7.0×5.0	9.6×6.4×8.1	9.6×(6.4,6.6)×10.1
Inductance (nH)	22-100	55-150	60-150	100-300	70-280
Rated Current (A)	17-40	25-70	20-70	32.5-94	30-145

	 WPZ0907	 WPZ1006C	 WPZ10075	 WPZ1007AS1	 WPZ10087
L×W×H (mm)	9.5×7.5×4.0/9.0 9.6×7.0×5.5	10.0×6.0/6.15×12.0	10.2/10.7×7.0×5.0 10.25×7.0×5.2	10.0×7.0×10.0	10.3×8.0×7.0 10.4×8.0×7.5
Inductance (nH)	70-300	70-330	70-300	70-330	100-330
Rated Current (A)	26-100	30-175	19-130	37-165	28-108

	 WPZ10088S1	 WPZ11077S1	 WPZ13138S1
L×W×H (mm)	10.4×8.0×8.2	11.0×7.4×7.7	13.7×12.8×8.1
Inductance (nH)	80-300	70-510	110-500
Rated Current (A)	33-130	18-150	25-140

TRANSFORMER

PCB Planar Transformer

TPP Series

Customized							
	TPPED14	TPPED21	TPPEE21	TPPED18	TPPER20	TPPER25	TPPED22
Dimensions							
L×W×H (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
Dimensions						
L×W×H (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

Other Types

RTSB/TW Series

Customized			
	RTSB	TWSHI	TWPEP05
Dimensions L×W×H (mm)	7 × 4 × 3	4.6×3.2×3.5	7.0×4.5×5.5
Power (W), Ref.	<3	30	30
Application	DC-DC	RJ45	AD-DC

WIRELESS CHARGING

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-WFB Series
Ferrite Flexible Antenna

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

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
---------------	-----	----------	----------	----------



SLFH Series High-pass

	
SLFH15	SLFH18

Start Freq. (MHz)	5150	1358
-------------------	------	------

Multilayer Chip Balun

SLBL Series Balun

			
SLBL06	SLBL15	SLBL18	SLBL21

Frequency Range (MHz)	698-2700	758-2025	699-6000	2400-8000
-----------------------	----------	----------	----------	-----------

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

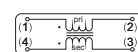
Wire Wound Chip Balun Transformer

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