

# SMD LINE FILTER FASF0905 SERIES



## FEATURES:

Low profile very effective in space conscious applications  
Low resistance filters have been designed for excellent electrical isolation  
High quality toroidal core  
Wide frequency range over 1000MHz

## OPTIONS:

Reel is Standard [Qty:1000pcs]  
Bulk packaging Available for Smaller Q quantities

## COMMON APPLICATIONS:

Provide common mode noise attenuation  
Reduce conducted noise  
For the suppression of EMI in data lines and signal lines, e.g., CAN Bus

## ELECTRICAL CHARACTERISTICS

Part Number	Inductance L1,L2 [μH]	Test Condition	DC Resistance N1,N2[Ω]	Nominal voltage vac[V]	Rated Current [A]	Impedance [Ω]	Freq. range [MHz.]
FASF 0905							
100YS	10±30%	0.1V, 1KHz	0.080 max.	50	1.60	200 min	20~300
250YS	25±30%	0.1V, 1KHz	0.160max.	50	1.00	600min	20~150
400YS	40±30%	0.1V, 1KHz	0.250max.	50	0.90	800min	20~100
500YS	50±30%	0.1V, 1KHz	0.320max.	50	0.80	1500min	20~100
251YS	250±30%	0.1V, 100KHz	0.130max.	50	1.20	600min	3~20
471YS	470±30%	0.1V, 100KHz	0.140max.	50	1.10	1000min	2~20
501YS	500±30%	0.1V, 100KHz	0.150max.	50	1.300	1000 min	1~20
102YS	1000±30%	0.1V, 100KHz	0.310max.	50	0.80	1500 min	1~15
202YS	2000±30%	0.1V, 100KHz	0.420max.	50	0.60	3000 min	1~5
472YS	4700±30%	0.1V, 100KHz	0.900max.	50	0.40	4000 min	0.3~3
652YS	6500±30%	0.1V, 100KHz	1.050max.	50	0.30	5000 min	0.3~2

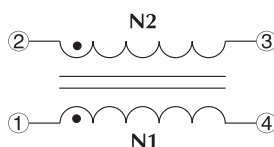
## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

### Materials:

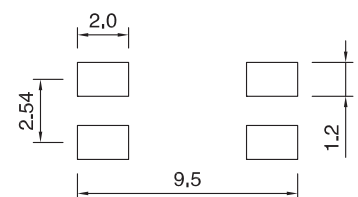
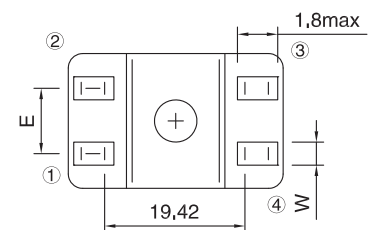
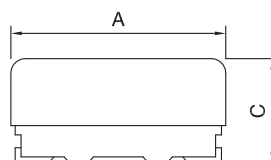
- Core: Ferrite Toroidal Core
- Wire: Enamelled Copper Wire
- Base: LCP
- Case: LCP
- Terminal: Tinned Copper Plate

### General Specification

- Storage Temperature: -40°C — +105°C
- Operation Temperature: -40°C — +85°C
- Temperature Rise: 45°C max. at Rated Current
- Resistance to solder heat: 260°C, 10 secs



“●”: Polarity



[PCB Pattern]

## DIMENSIONS:MM

Series	A	B	C	E	F	W
FASF 0905	9.20 ± 3.0	6.00 ± 0.30	5.00 ± 0.30	2.54 ± 0.20	5.70 ref.	1.00 ± 0.10

Note: All specifications subject to change without notice.



# SMD LINE FILTER FASF1306 SERIES

## FEATURES:

Low profile very effective in space conscious applications  
 Low resistance filters have been designed for excellent electrical isolation  
 High quality toroidal core  
 Wide frequency range over 1000MHz  
 Lead free construction

## OPTIONS:

Reel & Reel is Standard [Qty:600pcs]  
 Bulk packaging Available for Smaller Q quantities

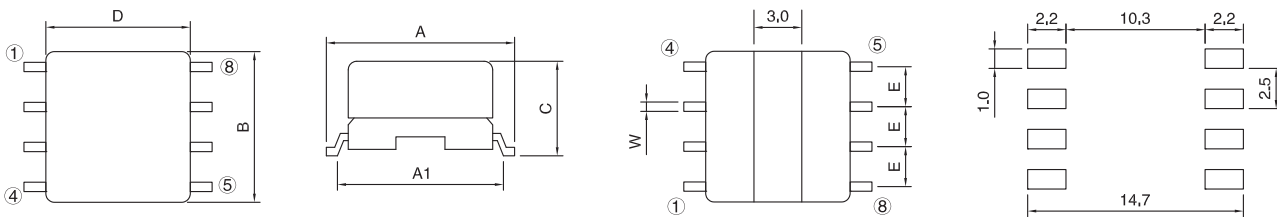
## COMMON APPLICATIONS:

Provide common mode noise attenuation  
 Reduce conducted noise For the suppression of EMI in data lines and signal lines, e.g., CAN Bus

## ELECTRICAL CHARACTERISTICS

Part Number	Inductance [μH]		DC resistance N1,N2[Ω]	Rated Current [A]	Impedance [Ω]	Freq. rang [MHz]	Fig
	L1,L2	L1-L2					
350YA	35±35%	4 max.	0.035 max	2.70max	400 min	5.0~250	B
600YA	60±35%	5 max.	0.065max	2.00max	600min	5.0~100	B
101YA	100±35%	15 max.	0.100max	0.70max	300min	1.0~50	A
251YA	250±35%	25 max.	0.150max	0.60max	600min	1.0~40	A
501YA	500±35%	35 max.	0.300max	0.40max	1200min	1.0~40	A
102YA	1000±35%	45 max.	0.400max	0.35max	2200min	0.5~10	A
501YA	500±35%	35 max.	0.300max	0.40max	1200min	1.0~40	A
102YA	1000±35%	45 max.	0.400max	0.35max	2200min	0.5~10	A

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

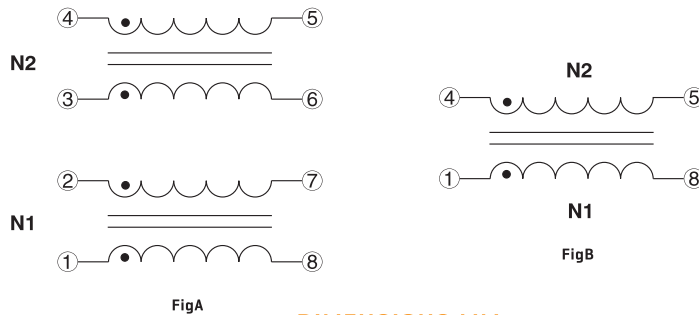


Materials:

1. Core: Ferrite Toroidal Core
2. Wire: Enamelled Copper Wire
3. Base: LCP
4. Terminal: Tinned Copper Plate
5. Adhesive: Epoxy Resin [0904]
6. Case: LCP

General Specification

1. Storage Temperature: -25°C ~ +85°C
2. Operating Temperature: -20°C ~ 80°C
3. Resistance to solder heat: 260°C, 10 secs



DIMENSIONS:MM

Series	A	A1	B	C	D	E	W
FASF1306	12.7±0.8	11.00±0.5	10.50max	5.75 0.30	9.50 0.20	2.50 0.20	0.70 0.10

Note: All specifications subject to change without notice.

# SMD LINE FILTER FASF0503,0602 SERIES



## FEATURES:

Low profile very effective in space conscious applications  
 Low resistance filters have been designed for excellent electrical isolation  
 High quality toroidal core  
 Wide frequency range over 1000MHz  
 Lead free construction

## OPTIONS:

Reel is Standard  
 Qty: 0503:500pcs,  
 0602:1000pcs  
 Bulk packaging Available  
 for Smaller Quantities

## COMMON APPLICATIONS:

Provide common mode noise attenuation  
 Reduce conducted noise  
 For the suppression of EMI in data lines and signal lines, e.g., CAN Bus

## ELECTRICAL CHARACTERISTICS

Part Number	L1,L2 @10KHz @ 0.1V rms [μH] +50% -30%	Freq. rang [μH]	Impedance min[Ω]	DCR[Ω] (each Winding)		Rated Current [mA]typ.
				max.	typ.	
110YL	11	100-500	450	0.180	0.130	100
220YL	22	40-300	900	0.230	0.170	100
330YL	33	30-250	1000	0.270	0.200	100
500YL	50	20-150	1400	0.320	0.240	100

Part Number	L [μH]	L-L [μH] max.	DCR[Ω] max. N1=N2	Rated Current [mA]	Impedance[Z]	
					Freq.range MHz	min [Ω]
FASF060						
100YL	10±50%	1	0.240	300	350~570	600
470YL	47±50%	4	2.160	300	4~1600	140
820YL	82±50%	4	2.200	300	3~850	220
101YL	100±50%	8	0.220	300	3~660	260
181YL	180±50%	8	0.250	300	3~250	500
221YL	220±50%	10	0.280	300	3~210	600
331YL	330±50%	10	0.300	300	3~120	900

## TECHNICAL INFORMATION

### Materials:

- Core: Ferrite Core[0503], Ferrite Toroidal Core[0602]
- Wire: Enamelled Copper Wire(Class F)
- Base: LCP [UL 94V-0][0503], LCP[0602]
- Terminal: Cu / Ni / Sn
- Adhesive: Epoxy Resin

### General Specification

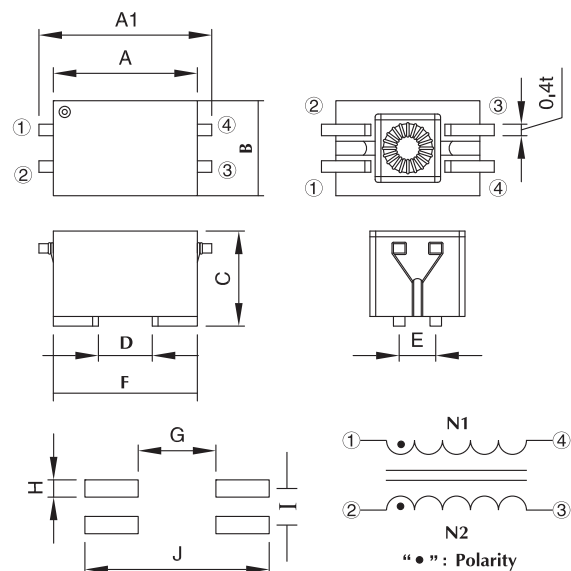
- Storage Temperature: -40°C - +125°C [0503], -40°C - +85°C[0602]
- Operation Temperature: -40°C - +105°C [0503], -40°C - +85°C[0602]
- Temperature Rise Included: 25°C max[0503], 20°C max[0602] at Rated Current
- Resistance to solder heat: 260 C, 10 secs

## DIMENSIONS:MM

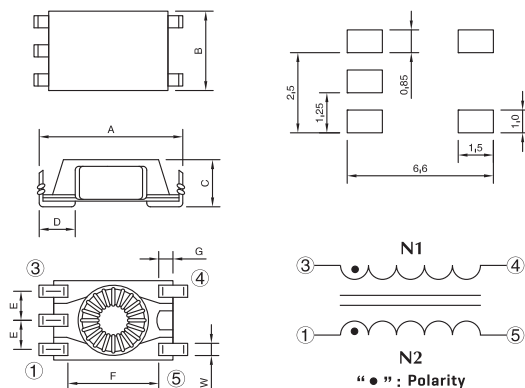
Series	A1	A	B	C	D	E	F	G	H	I	J
FASF0503L	6.00±0.3	5.00±0.3	3.30±0.3	3.30±0.2	3.10 typ.	1.27 typ.	5.00 typ.	2.70 typ.	0.60ref.	1.27ref.	6.40ref.

Series	A	B	C	D	E	F	G	W
FASF0602L	6.50 max	3.60±0.15	1.65±0.15	0.90min	1.25±0.10	3.4±0.2	0.8max	0.55±0.10

## PHYSICAL CHARACTERISTICS:



FASF 0503-L



FASF 0602

Note:All specifications subject to change without notice.