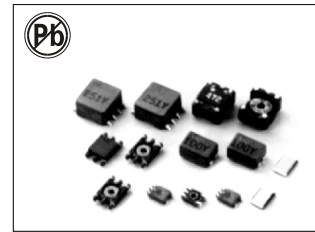


## SMD LINE FILTER

# SF 0905 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:

- Tape & Reel is Standard (Qty: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	Inductance L1,L2 (μH)	Test Condition	DC Resistance N1,N2(Ω)	Nominal voltage vac(V)	Rated Current (A)	Impedance (Ω)	Freq. range (MHz.)
SF 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 ± 50%	0.1V, 100KHz	0.130max.	50	1.20	600min	3~20
471YS	470 ± 50%	0.1V, 100KHz	0.140max.	50	1.10	1000min	2~20
501YS	500 ± 50%	0.1V, 100KHz	0.150max.	50	1.30	1000 min	1~20
102YS	1000 ± 50%	0.1V, 100KHz	0.310max.	50	0.80	1500 min	1~15
202YS	2000 ± 50%	0.1V, 100KHz	0.420max.	50	0.60	3000 min	1~5
472YS	4700 ± 50%	0.1V, 100KHz	0.900max.	50	0.40	4000 min	0.3~3
652YS	6500 ± 50%	0.1V, 100KHz	1.050max.	50	0.30	5000 min	0.3~2

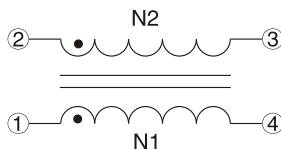
## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

#### • Materials:

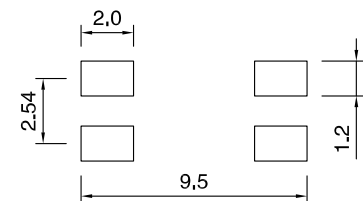
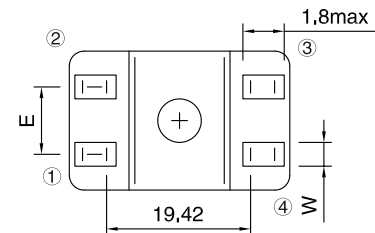
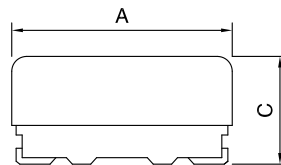
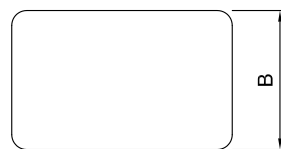
1. Core: Ferrite Toroidal Core
2. Wire: Enamelled Copper Wire
3. Base: LCP
4. Case: LCP
5. Terminal: Tinned Copper Plate

#### • General Specification:

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



“•” : Polarity



(PCB Pattern)

### Dimensions(mm)

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