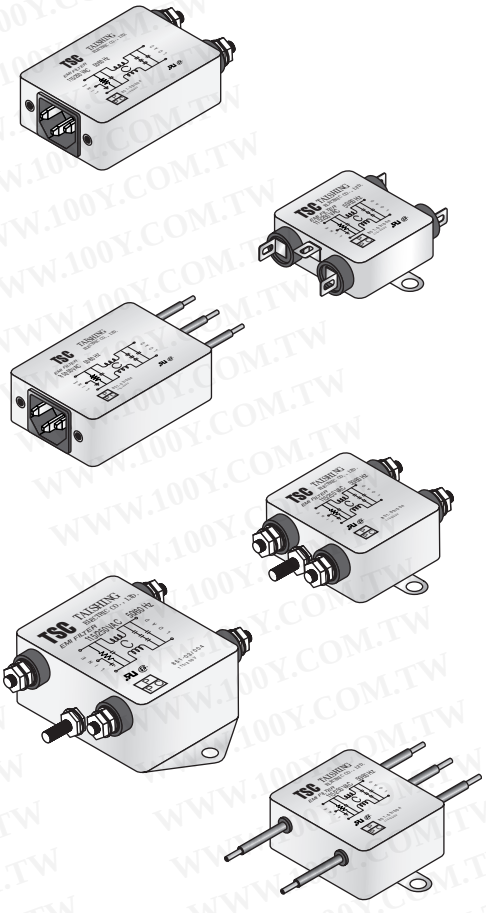
EMI Power Line Filter — BA Series

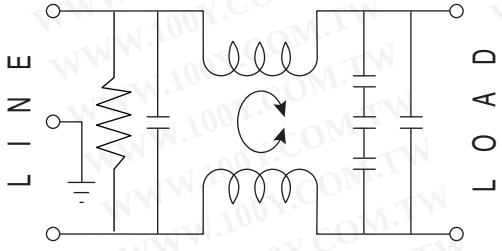
Introduction:

The BA series RFI/EMI power line filters are designed for general purpose to suppress line-to-ground and line-to-line interference. These filters are enclosed with metal cases of various termination styles for mounting on any equipment. The BA series power line filters are ideal for computers and peripheral equipment where pulsed, continuous and/or intermittent EMI interference is present. Safety and construction are approved by UL, CSA and VDE standards.



勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

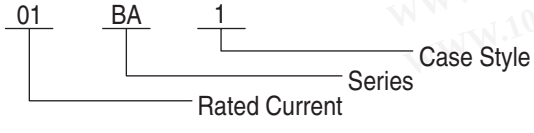
Electrical Schematic



Specifications:

- Rated Voltage: 115/250 VAC
- Power Line Frequency: 50/60 Hz
- Rated Current: 1, 2, 3, 5, 10, and 20 Amps.
- Maximum Leakage Current: Line-to-Ground
  @ 115 VAC 60 Hz 0.5 mA
  @ 250 VAC 50 Hz 1.0 mA
- Test Voltage: Line-to-Ground: 2250 VDC, one minute.
  Line-to-Line: 1450 VDC, one minute.

Part Numbering System:

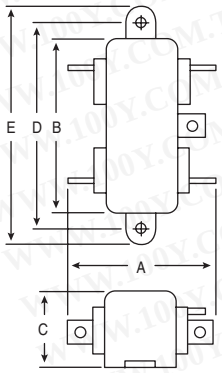


Typical insertion loss (dB):
Line-to-Ground in 50 ohm system.

Current Rating	Frequency (MHz)					
	0.15	0.5	1	5	10	30
1A 2A 3A	15	30	38	50	50	50
5A 10A 20A	8	22	28	42	45	50

EMI Power Line Filter

BA Series

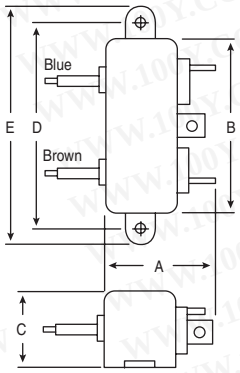


Typical Dimensions

Fastons: $\frac{.250}{6.35}$(3) Holes: $\frac{.07}{1.8}$ Dia.

Mounting Holes: $\frac{.188}{4.78}$ Dia.(2)

FIG. 1



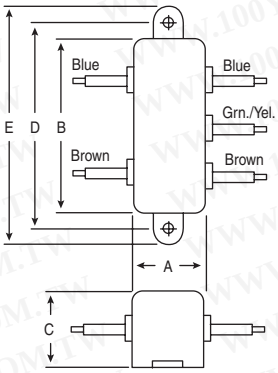
Typical Dimensions

Fastons: $\frac{.250}{6.35}$(3) Holes: $\frac{.07}{1.8}$ Dia.

Wire Leads: $\frac{4.0}{101.6}$ Min.(2)

Mounting Holes: $\frac{.188}{4.78}$ Dia.(2)

FIG. 2

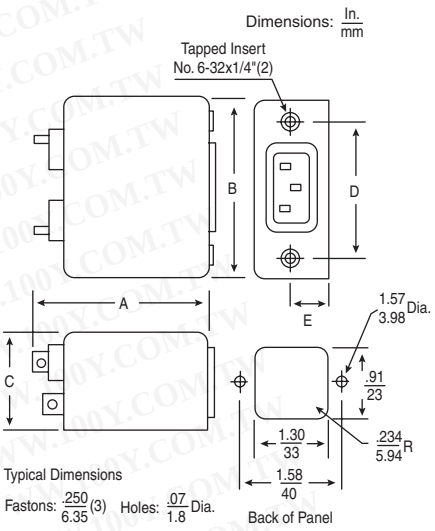


Typical Dimensions

Wire Leads: $\frac{4.0}{101.6}$ Min.(5)

Mounting Holes: $\frac{.188}{4.78}$ Dia.(2)

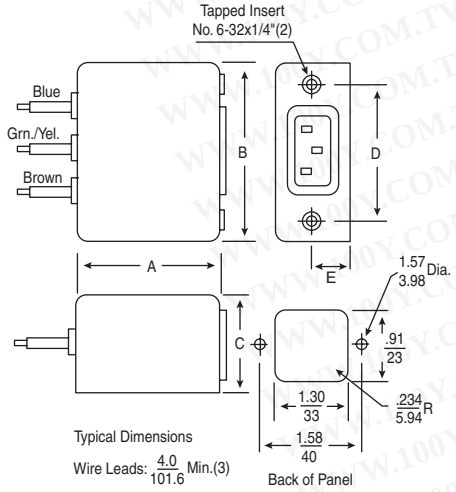
FIG. 3



Typical Dimensions

Fastons: $\frac{.250}{6.35}$(3) Holes: $\frac{.07}{1.8}$ Dia.

FIG. 4



Typical Dimensions

Wire Leads: $\frac{4.0}{101.6}$ Min.(3)

FIG. 5

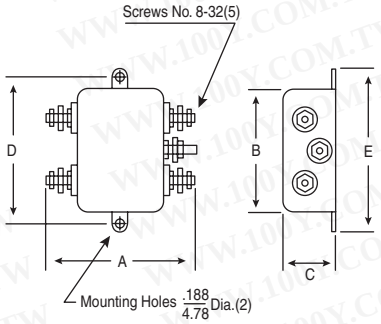


FIG. 6

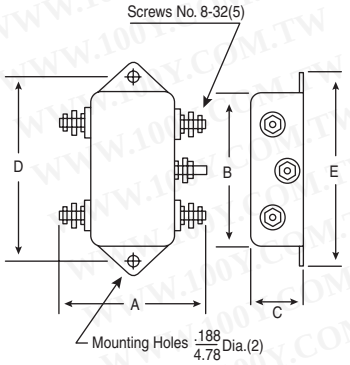


FIG. 7

Unit: ☐ mm ☐ inch

Current Rating	Part No.	Fig.	Dimensions									
			A (max)		B (max)		C (max)		D*		E (max)	
1A	01BA1	1	75.7	2.98	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	01BA2	2	60.8	2.39	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	01BA3	3	45.9	1.81	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	01BA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
	01BA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
2A	02BA1	1	75.7	2.98	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	02BA2	2	60.8	2.39	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	02BA3	3	45.9	1.81	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	02BA4	4	81.4	3.21	57.2	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
	02BA5	5	66.4	2.61	57.2	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
3A	03BA1	1	75.7	2.98	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	03BA2	2	60.8	2.39	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	03BA3	3	45.9	1.81	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	03BA4	4	81.4	3.21	57.2	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
	03BA5	5	66.4	2.61	57.2	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
5A	05BA1	1	75.7	2.98	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	05BA2	2	60.8	2.39	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	05BA3	3	45.9	1.81	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	05BA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
	05BA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
10A	10BA1	1	80.2	3.23	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	10BA2	2	67.2	2.65	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	10BA3	3	52.4	2.06	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	10BA4	4	92.5	3.64	57.2	2.25	32.4	1.28	40.1	1.58	16.0†	0.63†
	10BA6	6	87.9	3.46	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
20A	20BA1	1	82.0	3.23	65.0	2.56	38.8	1.53	74.7	2.94	85.1	3.35
	20BA7	7	87.9	3.46	65.0	2.56	38.8	1.53	74.7	2.94	85.1	3.35

* Tolerance ± 0.38mm (± 0.015 inch)

† Tolerance ± 0.50mm (± 0.020 inch)

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