F2500 Series

1. Features of F2500 Series:

- Dual stage multi-purpose EMI Filters
- Designed to suppress Common and Differential mode emissions
- Current Rating: 1A to 10A
- Voltage Rating: 115/250VAC
- Frequency: 50/60Hz
- Hi-Pot Rating: Line to Ground 2250VDC for 2 sec
- Hi-Pot Line to Line: 1450VDC for 2 sec
- Ambient Temperature Range: -25˚C To +85˚C
- Filter components are encapsulated in a plated metal enclosure
- Leakage Current: 0.45mA max. @ 250VAC 50Hz
- Power Supplies, UPS, Inverters, Convertors, Industrial and Exercise equipment, etc.

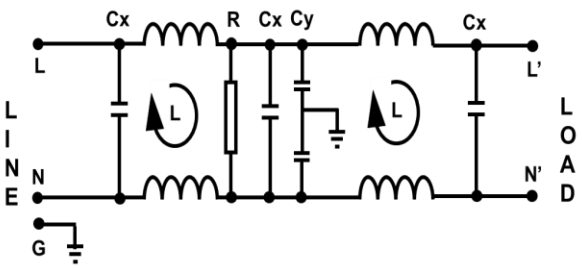
2. Electrical Characteristics :

ITG Part Number	Operating Current (A) at 40ºC	Input and Output terminal	Schematic
F2500D006B	6.0	Fast-on 250	1 or 2
F2500D010B	10.0	Fast-on 250	1 or 2

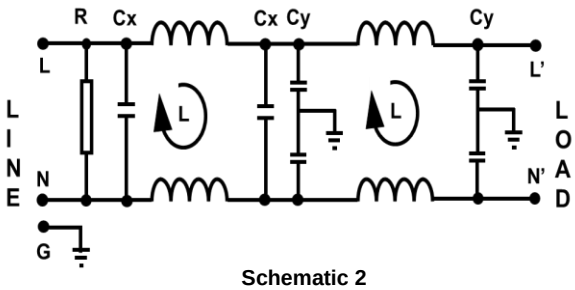
Notes:

1. Filters are available in 1A and 3A.
2. Filters are supplied w/o Line to ground “Y” capacitors for medical equipment.
3. Please call ITG for additional filter P/N’s.

3. Schematic:



Schematic 1



Schematic 2

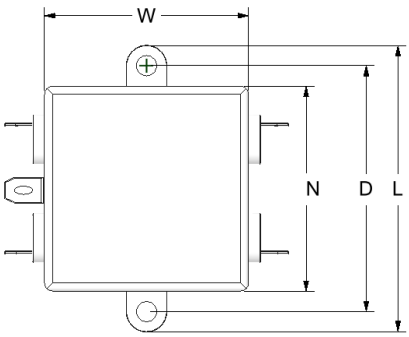
● **New York** *1 914 347 2474* ● **Taipei** *886 2 2698 8669* ● **Kaohsiung** *886 7 350 2275*
● **Japan** *81 568 85 2830* ● **Shenzhen** *86 755 8418 6263* ● **Shanghai** *86 21 5424 5141* ● **Hong Kong** *852 9688 9767*
● sales@ITG-Electronics.com ● www.ITG-Electronics.com *Revision A.1: Sep. 13, 2017*

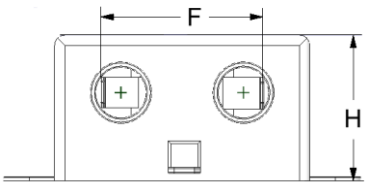
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*

F2500 Series

4. Mechanical Dimensions (mm±2mm):

ITG Part Number	L	W	H	D	N	F	Ground Terminal
F2500D006B	70.7	44.2	28.5	60.7	50.0	30.0	Fast-on 250
F2500D010B	70.7	44.2	28.5	60.7	50.0	30.0	Fast-on 250





5. Insertion Loss at 50Ω system: Attenuation data shown below is for schematic 1

Freq.(MHz) / P/N	CM(dB)							DM(dB)						
	0.15	0.5	1	5	10	30	50	0.15	0.5	1	5	10	30	50
F2500D006B	27	33	64	69	70	45	35	9	45	70	68	52	25	15
F2500D010B	27	45	64	69	69	45	35	9	46	63	68	52	25	15

Notes:
Filter current rating should be de-rated at ambient temperatures higher than +40ºC from formula below:
Operating current = Rated Current X ((85 - Operating temperature)/45)$^{0.5}$

● **New York** *1 914 347 2474* ● **Taipei** *886 2 2698 8669* ● **Kaohsiung** *886 7 350 2275*
● **Japan** *81 568 85 2830* ● **Shenzhen** *86 755 8418 6263* ● **Shanghai** *86 21 5424 5141* ● **Hong Kong** *852 9688 9767*
● sales@ITG-Electronics.com ● www.ITG-Electronics.com *Revision A.1: Sep. 13, 2017*

**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*