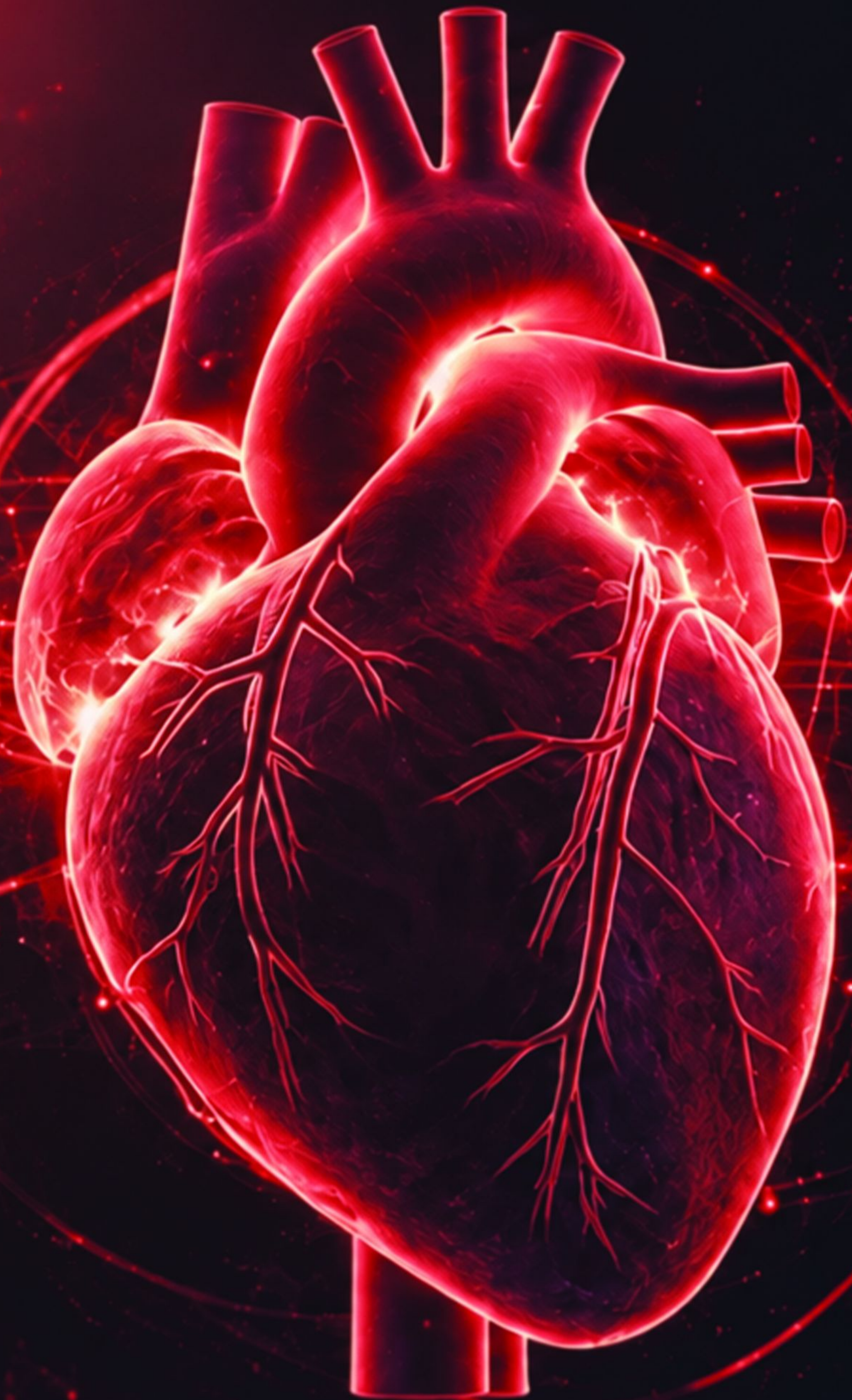


ETCO

MEDICAL SINGLE PHASE EMC-EMI FILTER
NOISE SOLUTION

www.electrotavan.com



DATA SHEET

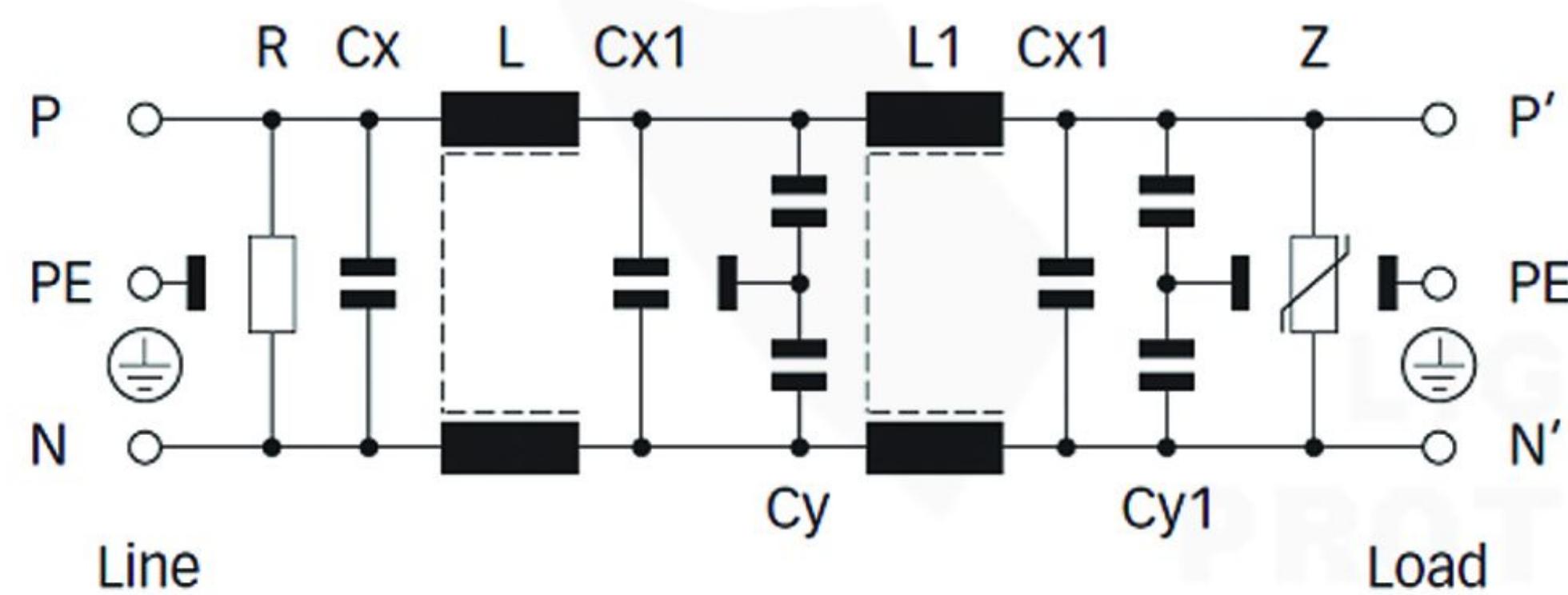
1-Phase Medical EMI filter
ET1EMI2SM -250
ET1EMI3SM -250



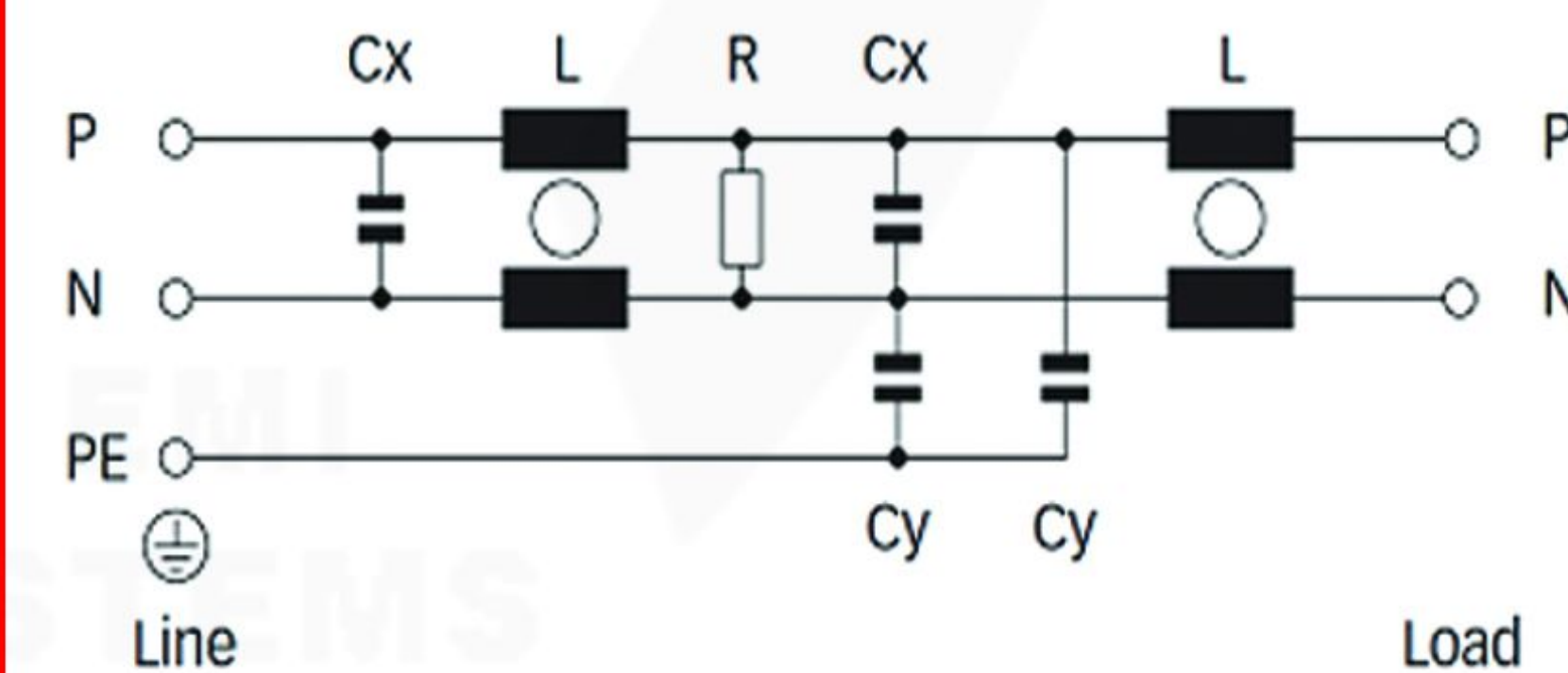
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Single phase Medical EMC-EMI Filter

Three stages filter



Two stages filter



Technical Specifications

Continuous Operating Voltage	250 VAC (210 ~ 280 VAC)
Rated current	10 – 30 A ac @ 40C
Operating Frequency	50/60 Hz
Best Noise Frequency Attenuation range	100 KHz to 30 MHz (Two stages) 150 KHz to 50 MHz (Three stages)
Protection category (IP)	IP20 (Two stages) IP20 (Three stages)
Temperature range	-20 to +85 C
Overload capability	1.2x rated current for 1 Hour 1.5x rated current for 1 minute
Transient Voltage (T.V)	2000 V
Design corresponding to	UL 1283 , CSA 22.2 No.8 1986
MTBF @ 45C	100,000 Hours (Three Stages) 150,000 Hours (Two stages)

Applications

- ☒ Ventilator / respiratory equipment
- ☒ Patient Monitor/ vital signs monitor
- ☒ ECG /EKG
- ☒ EEG
- ☒ ICU equipment
- ☒ surgical equipment
- ☒ Dialysis machine
- ☒ Infusion pump

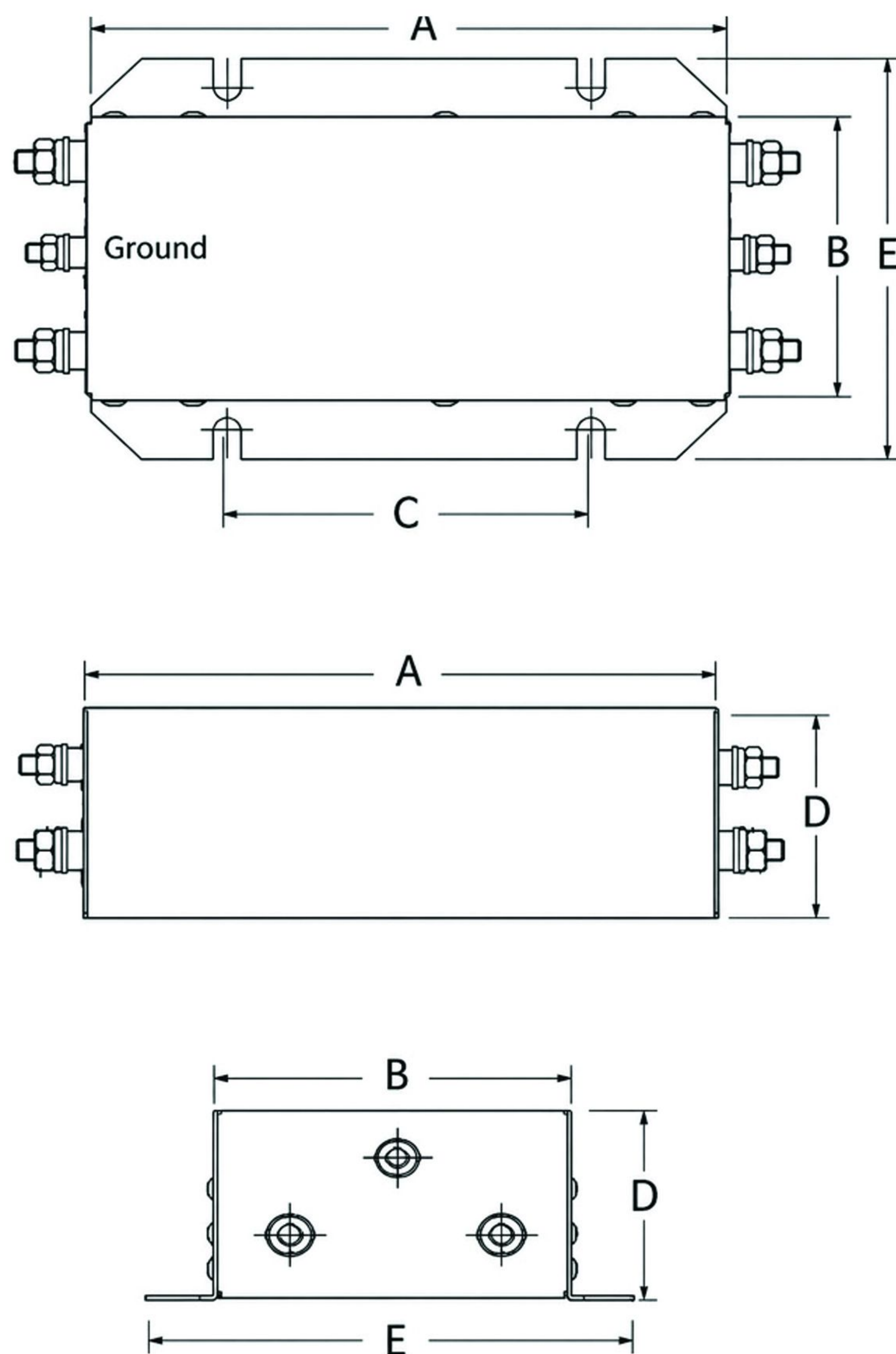
Features and benefits

- ☒ Using first grade ferrite cores with excellent thermal performance
- ☒ Accurate and compact resin coating for thermal discharge and proper temperature performance
- ☒ Steel body to prevent any radiated noise from entering the filter
- ☒ Suitable dimensions for use in small spaces and, if needed, customization of desired dimensions in high custom volumes
- ☒ Good performance in environments with high noise levels
- ☒ Quality guarantee and after-sales service

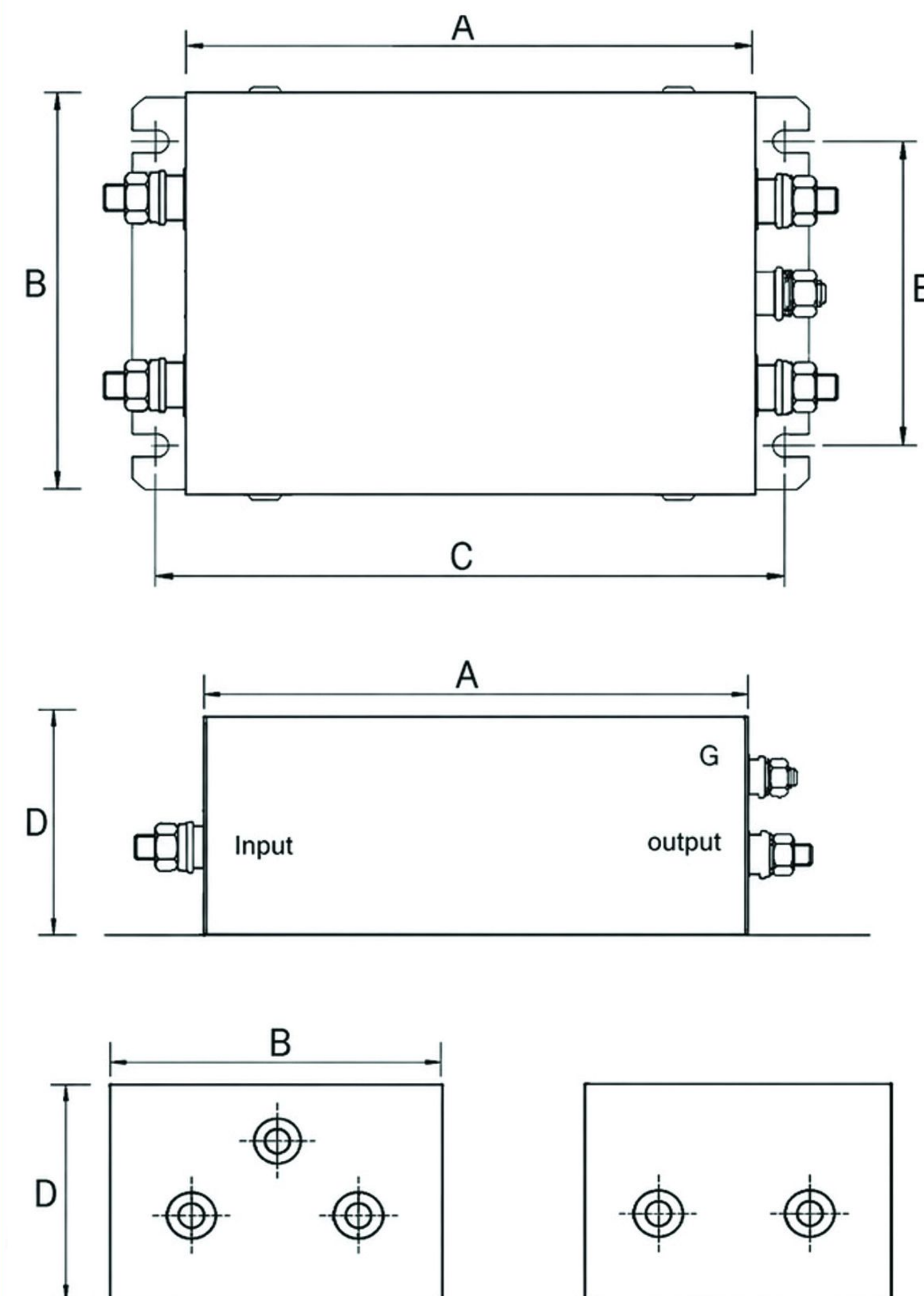


Mechanical Data

Three Stages filter



Two Stages filter



Two Stages filter selection table

Model	Rated current @ 40C (A)	Leakage current @250 VAC /50 Hz (uA)	Power loss @40C (W)	Connection type	Weight (Kg)	Dimensions				
						A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ET1EMI2SM – 250 – 10	10	0- 50uA	1.8	*	0.40	80	62	100	43	43
ET1EMI2SM – 250 – 15	15	0- 50uA	2.5	*	0.41	80	62	100	43	43
ET1EMI2SM – 250 – 20	20	0- 50uA	2.9	*	0.45	80	62	100	43	43
ET1EMI2SM – 250 – 25	25	0- 50uA	3.4	*	0.56	90	73	108	43	50
ET1EMI2SM – 250 – 30	30	0- 50uA	3.8	*	0.65	90	73	108	43	50

Three Stages filter selection table

Model	Rated current @ 40C (A)	Leakage current @250 VAC /50 Hz (uA)	Power loss @40C (W)	Connection type	Weight (Kg)	Dimensions				
						A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ET1EMI3SM – 250 – 10	10	0- 50uA	1.8	*	0.40	150	90	101	45	120
ET1EMI3SM – 250 – 15	15	0- 50uA	2.5	*	0.41	150	90	101	45	120
ET1EMI3SM – 250 – 20	20	0- 50uA	2.9	*	0.45	150	90	101	45	120
ET1EMI3SM – 250 – 25	25	0- 50uA	3.4	*	0.56	150	90	101	45	120
ET1EMI3SM – 250 – 30	30	0- 50uA	3.8	*	0.65	150	90	101	45	120