

RPM7000

MIL/COTS **AC**, SINGLE PHASE EMI POWER LINE FILTER

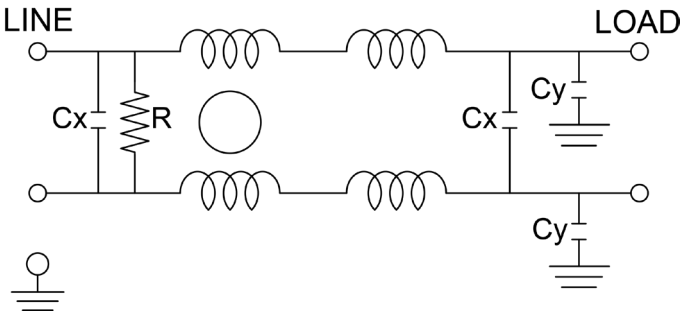
FEATURES

- **Rated currents** include **5A, 10A, 20A, 30A, and 50A**
- Dual Stage Line Filter
- Available with **S** (studs)
- Agency Approved to RoHS
- Y-cap value can be adjusted to fit specification



RoHS

ELECTRICAL SCHEMATIC



HOW TO ORDER

RPM7000 - Y - Z

- Z = TERMINAL (-T)
- X = RATED CURRENT
- RPM7000=FILTER SERIES

NOTE: USE ANY COMBINATION OF -X (AMPS) WITH ANY -Y RATINGS
E.G. **RPM7000-5-S** (5AMPS)

For **X** and **Y** options see product specification table.

SPECIFICATIONS

OPERATING FREQUENCY	47-400 Hz DC
MAX. OPERATING VOLTAGE*	300 VAC +10%
AMBIENT TEMPERATURE	-40 TO 70°C
CLIMATIC CATEGORY	25/100/21
TERMINALS (-T)	STUDS: 5-30A (M5) 50A (M6)
TYP. WEIGHT, LBS (KG)	0.4 - 3.7(0.2 - 1.8)

TYPICAL LEAKAGE CURRENT

@ 250 VAC 60 Hz	0 - 3.50 mA Max.

HIPOT RATINGS

LINE TO GROUND	1800 VDC

TYPICAL APPLICATIONS

- ✓ Mil-461/ DO-160

NOTE:

- ✓ Call for other termination types (e.g. Circular Mil-Connectors, etc.) Leakage current is determined by the line to ground capacitors in the filter. The capacitors can be easily varied to match the system leakage requirements.

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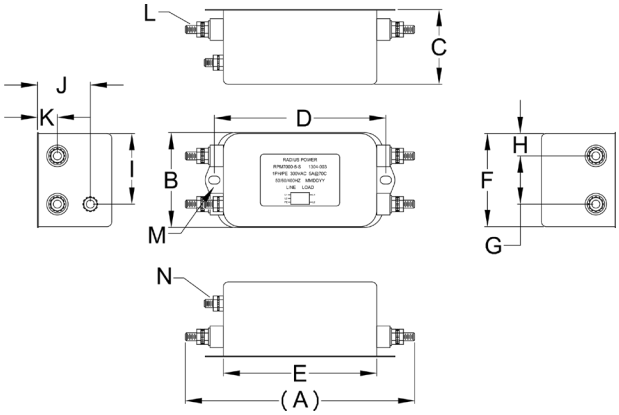
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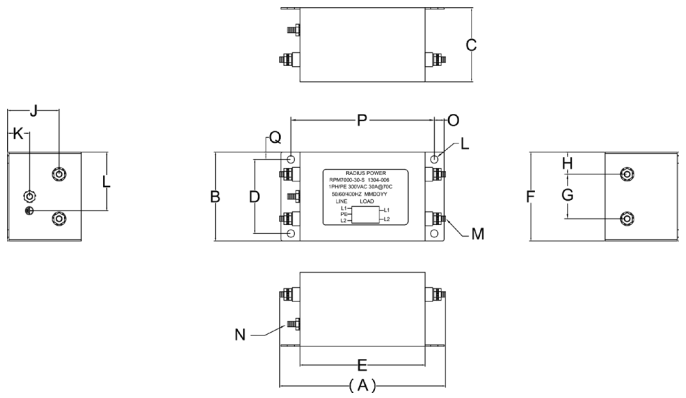
MODEL NO.	RATED CURRENT, A @ 40° C	LEAKAGE CURRENT, mA @ 250V AC, 60 Hz	TERMINAL OPTIONS			MOUNTING	MAX. DIMENSIONS" (MM)		
			(W) INPUT/ OUTPUT	(S) INPUT/ OUTPUT	(C) INPUT/ OUTPUT	FLANGE	WIDTH	(LENGTH)	HEIGHT
RPM7000-5-S	5	3.50		✓		✓	2.28"(58)	5.47"(139)	1.81"(46)
RPM7000-10-S	10	3.50		✓		✓	2.28"(58)	5.47"(139)	1.81"(46)
RPM7000-20-S	20	3.50		✓		✓	3.00"(76)	5.63"(143)	2.50"(64)
RPM7000-30-S	30	3.50		✓		✓	3.00"(76)	5.63"(143)	2.50"(64)
RPM7000-50-S 10NF	50	3.50		✓		✓	4.25"(108)	8.72"(221)	2.76"(70)

RPM7000 MECHANICAL OUTLINES (MM)

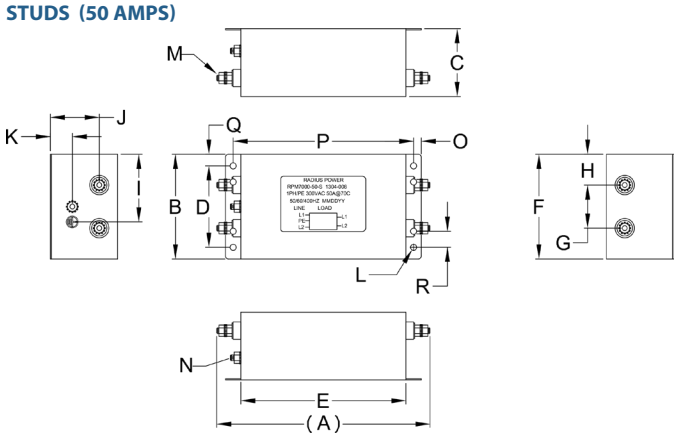
STUDS (5/10 AMPS)



STUDS (20/30 AMPS)



STUDS (50 AMPS)



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SERIES	(A)	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
STUDS (5/10A)	5.47" (139)	2.28" (58)	1.81" (46)	4.09" (104)	3.66" (93)	2.24" (57)	1.14" (29)	0.53" (14)	1.67" (43)	1.26" (32)	0.47" (12)	Ø0.26"x0.18", 2x (Ø6.8x4.8, 2x)	STUD, M5, 4x	STUD, GND, M5	N/A	N/A	N/A	0.00"
STUDS (20/30A)	5.63" (143)	3.00" (76)	2.50" (64)	2.50" (64)	4.25" (108)	3.00" (76)	1.50" (38)	0.75" (19)	1.98" (50)	1.75" (44)	0.75" (19)	Ø0.25",4x (Ø6.35,4x)	STUD, M5, 4x	STUD, GND, M5	0.34" (9)	4.87" (124)	0.25" (6)	0.00"
STUDS (50A)	8.72" (221)	4.25" (108)	2.76" (70)	3.31" (84)	6.75" (172)	4.25" (108)	1.75" (44)	1.25" (32)	2.75" (70)	2.00" (51)	0.91" (23)	0.25", 8x (Ø6.4, 8x)	STUD, M6, 4x	STUD, GND, M6	0.31" (8)	7.38" (187)	0.47" (12)	1.13" (29)

TYPICAL TOLERANCE: +/-0.02" (0.50MM)

TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Amps	Freq (MHz)	0.15	0.5	1.0	10	30
5	CM (dB)	32	50	50	45	30
	DM (dB)	42	60	60	40	30
10	CM (dB)	32	50	50	45	30
	DM (dB)	42	60	60	40	30
20	CM (dB)	32	50	50	45	30
	DM (dB)	42	60	60	40	30
30	CM (dB)	32	50	50	45	30
	DM (dB)	42	60	60	40	30
50	CM (dB)	32	50	50	45	30
	DM (dB)	42	60	60	40	30

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