

# PMCU-XXXX EMI/RFI COMMON MODE LINE FILTERS

RoHS

## LOW PROFILE-HORZ

- \* Rated Voltage: 250Vac, 45/400Hz
- \*  $\leq 30^{\circ}\text{C}$  Temp Rise & Rated Current <sup>(1)</sup>
- \* Operating Temp -40 to +80 °C

- \* Low Profile Horizontal Construction
- \* 3750Vrms Isolation
- \* Insulation Resistance @ 500Vdc >100MW

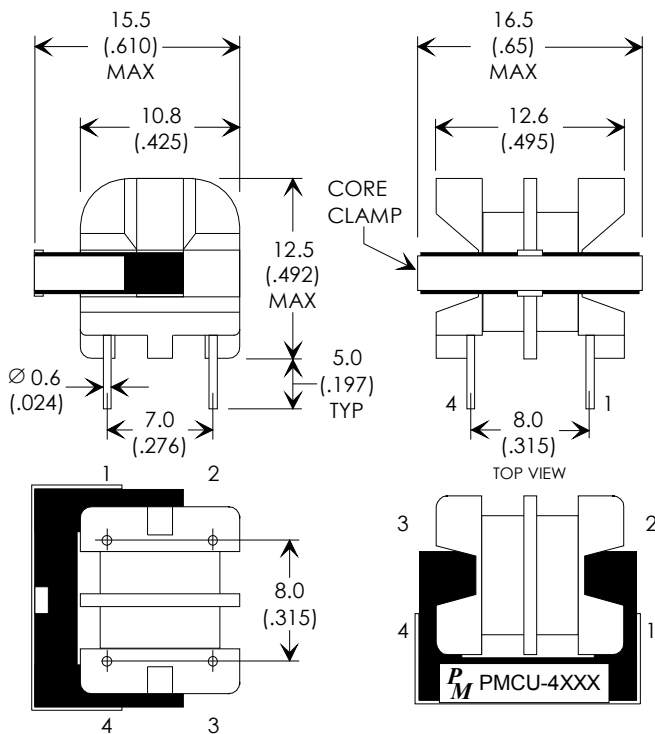
## ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +80°C

PART NUMBER	RATED RMS Current mA rms	Load VA @ RMS Line		INDUCTANCE @ 1KHz (mH Min.)	DCR EACH WINDING (Ohms Max.)	PACKAGE
		115V	230V			
PMCU-4470	150	17.25	34.50	47.0	6.90	U9.8
PMCU-4330	200	23.00	46.00	33.0	5.50	U9.8
PMCU-4220	250	28.75	57.50	22.0	3.70	U9.8
PMCU-4100	350	40.25	80.50	10.0	1.40	U9.8
PMCU-4056	450	51.75	103.50	5.6	0.75	U9.8
PMCU-4033	600	69.00	138.00	3.3	0.50	U9.8
PMCU-4015	800	92.00	184.00	1.5	0.30	U9.8
PMCU-4009	1000	115.00	230.00	0.9	0.16	U9.8
PMCU-4005	1500	172.50	345.00	0.5	0.12	U9.8
PMCU-4002	2000	230.00	460.00	0.2	0.06	U9.8
PMCU-4001	3000	345.00	690.00	0.1	0.03	U9.8

Notes:

- (1) Temperature Rise is specified at maximum continuous current. Lower currents will result in reduced temperature rise. Design point is  $\leq 30^{\circ}\text{C}$  rise at rated current.

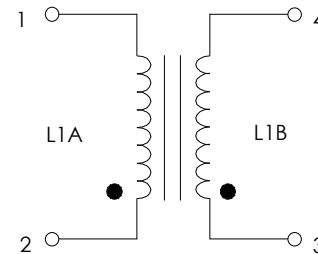
## DIMENSIONS mm (IN)



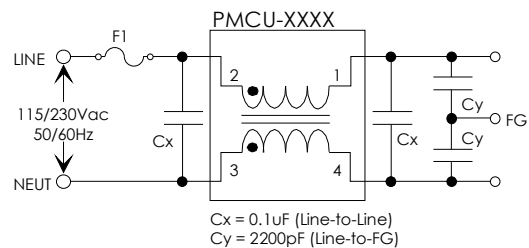
## SCHEMATIC

PART IS REVERSIBLE.  
IT CAN BE INSERTED INTO PCB EITHER WAY.

DOT ON BOBBIN  
DENOTES PIN #1



## TYPICAL APPLICATION CIRCUIT



# PMCU-XXXX EMI/RFI COMMON MODE LINE FILTERS

## LOW PROFILE-VERT

- \* Rated Voltage: 250Vac, 45/400Hz
- \*  $\leq 30^{\circ}\text{C}$  Temp Rise & Rated Current <sup>(1)</sup>
- \* Operating Temp -40 to +80 °C

- \* Low Profile Vertical Construction
- \* 3750Vrms Isolation
- \* Insulation Resistance @ 500Vdc >100MW

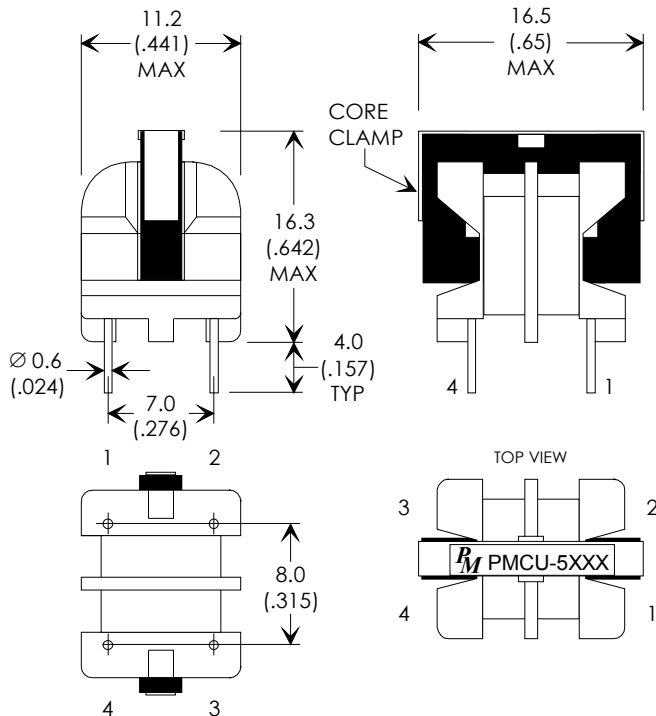
## ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +80°C

PART NUMBER	RATED RMS Current mA rms	Load VA @ RMS Line		INDUCTANCE @ 1KHz (mH Min.)	DCR EACH WINDING (Ohms Max.)	PACKAGE
		115V	230V			
PMCU-5470	150	17.25	34.50	47.0	6.90	U9.8
PMCU-5330	200	23.00	46.00	33.0	4.95	U9.8
PMCU-5220	250	28.75	57.50	22.0	3.70	U9.8
PMCU-5100	350	40.25	80.50	10.0	1.40	U9.8
PMCU-5056	450	51.75	103.50	5.6	0.75	U9.8
PMCU-5033	600	69.00	138.00	3.3	0.50	U9.8
PMCU-5015	800	92.00	184.00	1.5	0.30	U9.8
PMCU-5009	1000	115.00	230.00	0.9	0.16	U9.8
PMCU-5005	1500	172.50	345.00	0.5	0.12	U9.8
PMCU-5002	2000	230.00	460.00	0.2	0.06	U9.8
PMCU-5001	3000	345.00	690.00	0.1	0.03	U9.8

Notes:

- (1) Temperature Rise is specified at maximum continuous current. Lower currents will result in reduced temperature rise. Design point is  $\leq 30^{\circ}\text{C}$  rise at rated current.

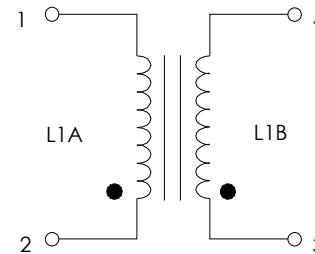
## DIMENSIONS mm (IN)



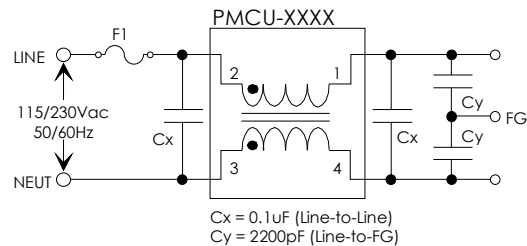
## SCHEMATIC

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DOT ON BOBBIN  
DENOTES PIN #1



## TYPICAL APPLICATION CIRCUIT



## MEDIUM POWER

- \* Rated Voltage: 250Vac, 45/400Hz
- \*  $\leq 50^{\circ}\text{C}$  Temp Rise & Rated Current <sup>(1)</sup>
- \* Operating Temp -40 to +80 °C

- \* Low Profile Construction
- \* 3750Vrms Isolation
- \* Insulation Resistance @ 500Vdc >100MW

## ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +80°C

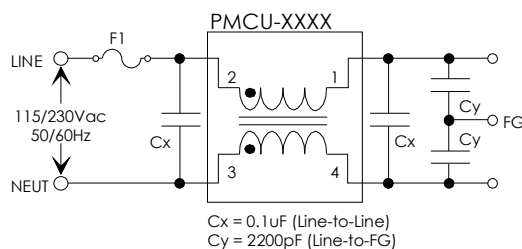
PART NUMBER	RATED RMS Current Amps rms	Load VA @ RMS Line		INDUCTANCE @ 1KHz (mH Min.)	DCR EACH WINDING (Ohms Max.)	PACKAGE
		115V	230V			
PMCU-0470	0.35	40.25	80.50	47.0	2.40	U10.5
PMCU-0330	0.40	46.00	92.00	33.0	2.00	U10.5
PMCU-0220	0.50	57.50	115.00	22.0	1.20	U10.5
PMCU-0100	0.65	74.75	149.50	10.0	0.75	U10.5
PMCU-0056	1.00	115.00	230.00	5.6	0.40	U10.5
PMCU-0033	1.20	138.00	276.00	3.3	0.25	U10.5
PMCU-0015	1.80	207.00	414.00	1.5	0.11	U10.5
PMCU-2470	0.50	57.50	115.00	47.0	1.35	U16
PMCU-2330	0.60	69.00	138.00	33.0	1.00	U16
PMCU-2220	0.75	86.25	172.50	22.0	0.60	U16
PMCU-2100	1.00	115.00	230.00	10.0	0.34	U16
PMCU-2056	1.40	161.00	322.00	5.6	0.15	U16
PMCU-2033	2.00	230.00	460.00	3.3	0.10	U16
PMCU-2015	2.70	310.0	621	1.5	0.04	U16

Notes:

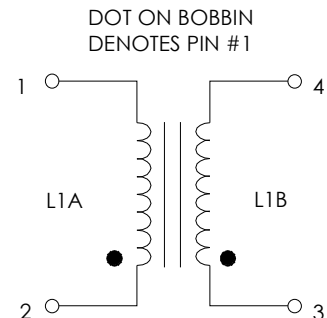
- (1) Temperature Rise is specified at maximum continuous current. Lower currents will result in reduced temperature rise. Design point is  $\leq 50^{\circ}\text{C}$  rise at rated current.

## APPLICATION

### TYPICAL APPLICATION CIRCUIT



## SCHEMATIC



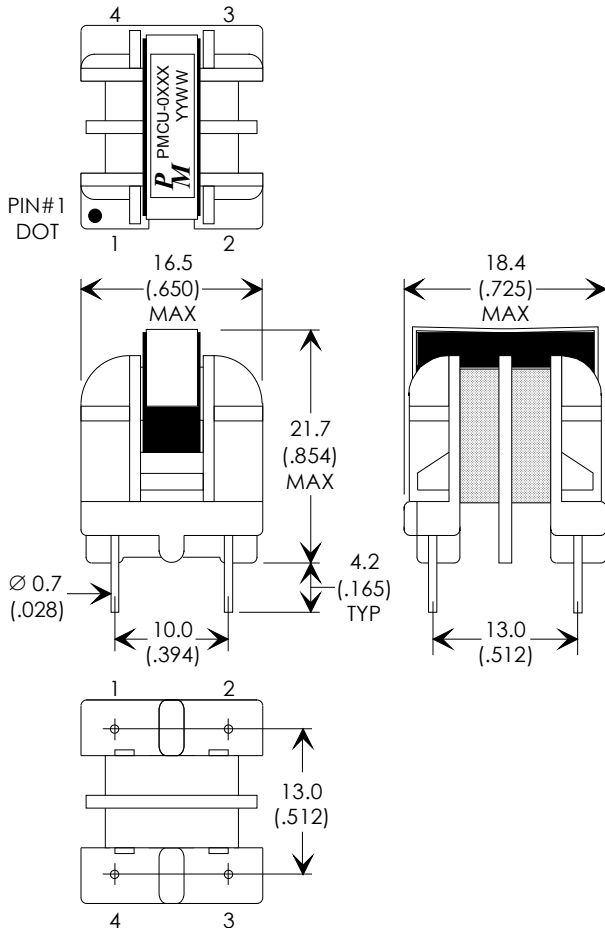
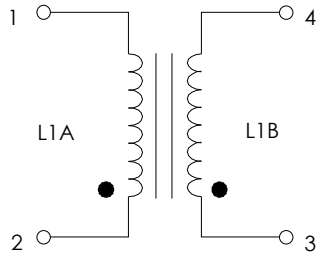
# PMCU-XXXX EMI/RFI COMMON MODE LINE FILTERS

**PMCU-0XXX U10.5**

## Dimensions in mm (inches)

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DOT ON BOBBIN  
DENOTES PIN # 1

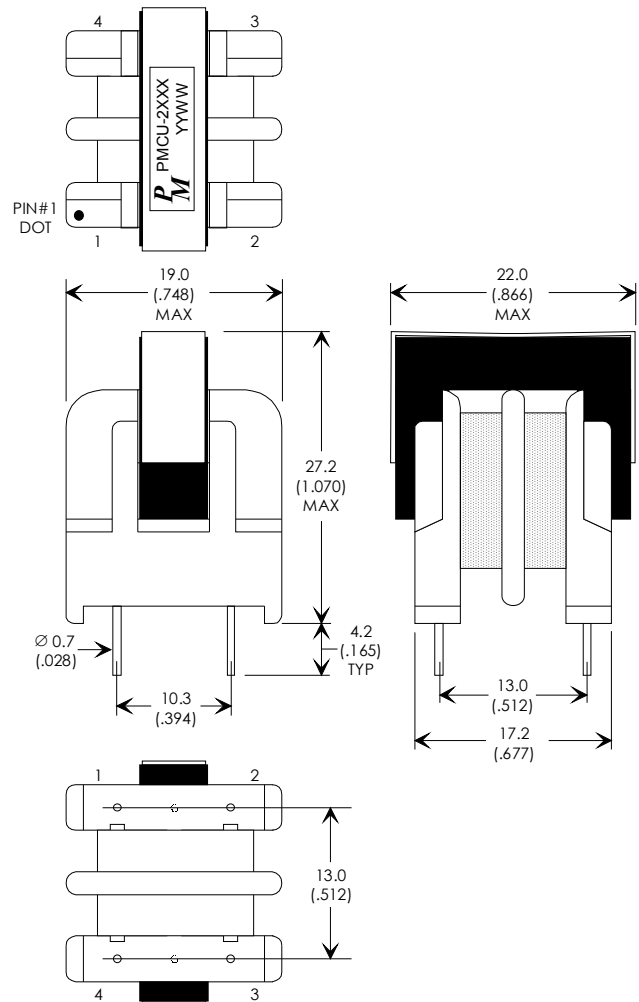
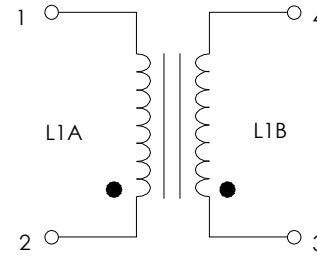


**PMCU-2XXX U16**

## Dimensions in mm (inches)

PART IS REVERSIBLE.  
IT CAN BE INSERTED INTO PCB EITHER WAY.

DOT ON BOBBIN  
DENOTES PIN # 1



# PMCU-XXXX EMI/RFI COMMON MODE LINE FILTERS

RoHS

## MEDIUM POWER

- \* Rated Voltage: 250Vac, 50/60Hz
- \*  $\leq 50^{\circ}\text{C}$  Temp Rise & Rated Current <sup>(1)</sup>
- \* Operating Temp -40 to +80 °C

- \* Low Profile Construction
- \* 3750Vrms Isolation
- \* Insulation Resistance @ 500Vdc >100MΩ

## ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +80°C

PART NUMBER	RATED RMS Current Amps rms	Load VA @ RMS Line		INDUCTANCE @ 1KHz (mH Min.)	DCR EACH WINDING (Ohms Typ.)	PACKAGE
		115V	230V			
PMCU-6001	0.3	34.5	86.9	36.0	2.0	A6
PMCU-6003	0.3	34.5	86.9	43.0	2.1	A6
PMCU-6005	0.4	46.0	92.0	22.0	1.2	A6
PMCU-6007	0.4	46.0	92.0	30.0	1.4	A6
PMCU-6009	0.5	57.5	115.0	13.0	0.95	A6
PMCU-6011	0.5	57.5	115.0	20.0	1.1	A6
PMCU-6013	0.6	69.0	138.0	12.0	0.6	A6
PMCU-6015	0.7	80.5	161.0	7.7	0.36	A6
PMCU-6017	0.7	80.5	161.0	10.0	0.41	A6
PMCU-6019	0.8	92.0	184.0	7.5	0.35	A6
PMCU-6021	1.0	115.0	230.0	3.6	0.20	A6
PMCU-6023	1.0	115.0	230.0	5.5	0.25	A6
PMCU-6025	1.2	138.0	276.0	3.5	0.16	A6
PMCU-6027	1.3	149.5	299.0	2.0	0.12	A6
PMCU-6029	1.3	149.5	299.0	3.0	0.14	A6
PMCU-6031	1.5	172.5	345.0	1.8	0.09	A6
PMCU-6033	1.5	172.5	345.0	2.2	0.10	A6
PMCU-6035	1.7	195.5	391	1.3	0.06	A6
PMCU-6037	1.7	195.5	391	1.8	0.07	A6
PMCU-6039	2.0	230.0	460.0	0.9	0.5	A6
PMCU-6041	2.0	230.0	460.0	1.5	0.7	A6

Notes:

- (1) Temperature Rise is specified at maximum continuous current. Lower currents will result in reduced temperature rise. Design point is  $\leq 50^{\circ}\text{C}$  rise at rated current.

# PMCU-XXXX EMI/RFI COMMON MODE LINE FILTERS

**PACKAGE A6**

**SCHEMATIC**

