

# Muilt - 6 Pack, Inductors and Transformers

## PM600 / PM610 / PM620 Series

### Special Features:

- Six windings offer many inductor or transformer configuration
- High magnetic coupling
- Non-gapped and gapped core construction
- Low core loss at high frequency applications
- Low noise radiation
- Compact size and low profile
- Dielectric strength: 500 Vrms between windings
- Operating temperature: -40 to +105 °C
- Tape & Reel packaging:
  - PM600, 600/reel
  - PM610, 300/reel
  - PM620, 200/reel

### Typical Applications:

- Inductors: buck, boost, buck-boost, coupled, input, output, choke, filter, resonant, high-Q, EMI/RFI filtering, differential, forward, common mode
- Transformers: flyback, forward, push-pull, bridge, multiple outputs, inverter, step-up, step-down, gate drive, base drive, signal, wide band, pulse, impedance, isolation, converter

### Notes:

1. Saturation current is rated to each winding that causes inductance to drop 30% from its initial value.
2. Rms current is rated to each winding that causes 40°C temperature rise.
3. PM600-01, -02, PM610-01, -02  
PM620-01, -02 are non gap core.

Part Number	L (uH) @ 100KHz	DCR (Ω) Max.	Isat (A)	Irms (A)
PM600-01	201.6 ±30%	0.324	0.02	0.46
PM600-02	89.6 ±30%	0.137	0.03	0.71
PM600-03	27.4 ±10%	0.324	0.31	0.46
PM600-04	12.2 ±10%	0.137	0.47	0.71
PM600-05	14.7 ±10%	0.324	0.58	0.46
PM600-06	6.5 ±10%	0.137	0.87	0.71
PM600-07	10.9 ±10%	0.324	0.88	0.46
PM600-08	4.9 ±10%	0.137	1.32	0.71
PM600-09	8.5 ±10%	0.324	1.23	0.46
PM600-10	3.8 ±10%	0.137	1.85	0.71
PM610-01	160.0 ±30%	0.202	0.04	0.68
PM610-02	78.4 ±30%	0.094	0.06	1.00
PM610-03	21.6 ±10%	0.202	0.67	0.68
PM610-04	10.6 ±10%	0.094	0.96	1.00
PM610-05	11.6 ±10%	0.202	1.30	0.68
PM610-06	5.7 ±10%	0.094	1.86	1.00
PM610-07	8.3 ±10%	0.202	2.00	0.68
PM610-08	4.1 ±10%	0.094	2.86	1.00
PM610-09	6.6 ±10%	0.202	2.30	0.68
PM610-10	3.2 ±10%	0.094	3.29	1.00
PM620-01	160.6 ±30%	0.094	0.03	1.28
PM620-02	77.0 ±30%	0.065	0.04	1.54
PM620-03	131.8 ±20%	0.094	0.08	1.28
PM620-04	63.2 ±20%	0.065	0.12	1.54
PM620-05	23.3 ±10%	0.094	0.36	1.28
PM620-06	11.2 ±10%	0.065	0.52	1.54
PM620-07	14.2 ±10%	0.094	0.76	1.28
PM620-08	6.8 ±10%	0.065	1.10	1.54
PM620-09	9.3 ±10%	0.094	1.11	1.28
PM620-10	4.5 ±10%	0.065	1.60	1.54
PM620-11	7.9 ±10%	0.094	1.40	1.28
PM620-12	3.8 ±10%	0.065	2.02	1.54

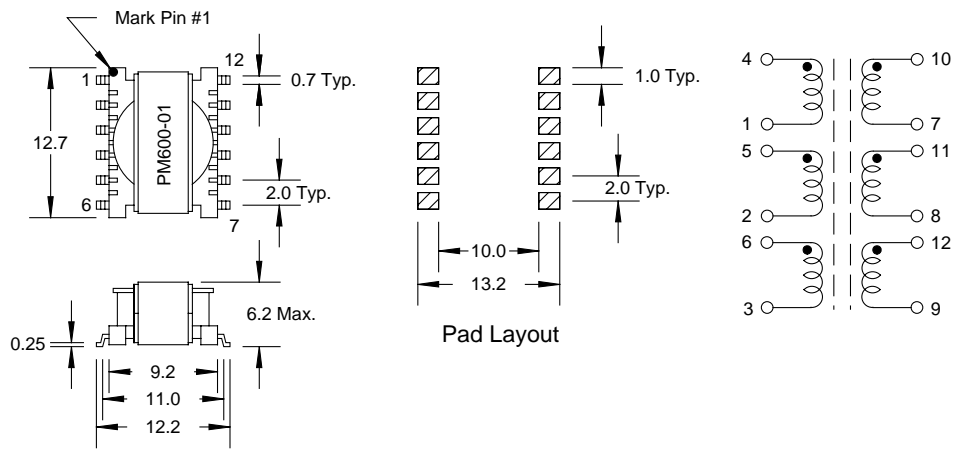
**J.W. Miller**

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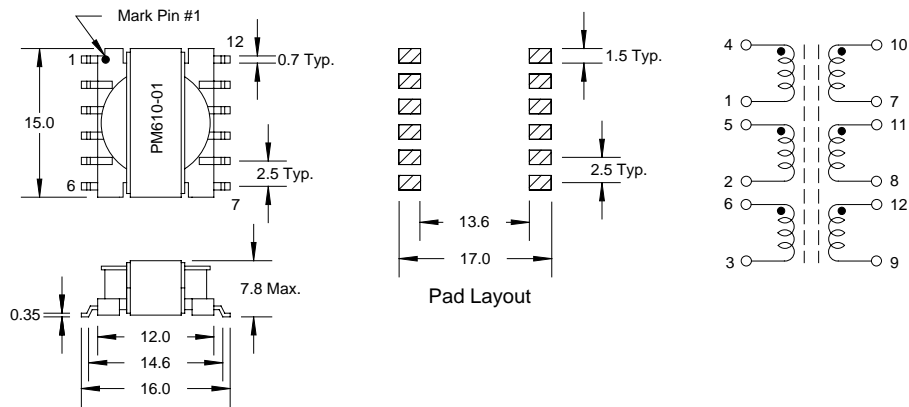
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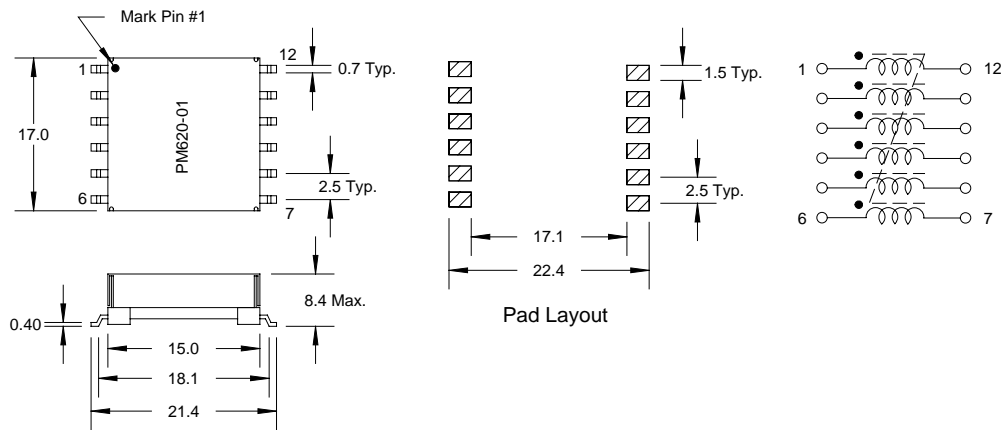
## Mechanical Dimensions: (mm)



PM600-xx



PM610-xx



PM6200-xx

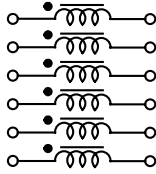
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MAGNETICS

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# Typical Configurations

## Inductor



Basic Diagram  
Inductance:  $L$   
Current:  $I$

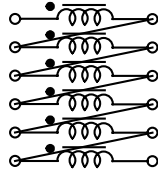


Figure 1  
Inductance:  $36 \times L$   
Current:  $I$

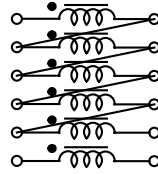


Figure 2  
Inductance:  $25 \times L$   
Current:  $I$

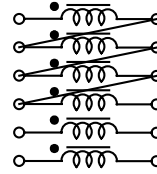


Figure 3  
Inductance:  $16 \times L$   
Current:  $I$

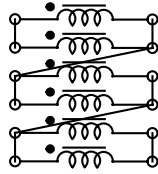


Figure 4  
Inductance:  $9 \times L$   
Current:  $2 \times I$

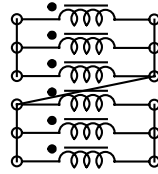


Figure 5  
Inductance:  $4 \times L$   
Current:  $3 \times I$

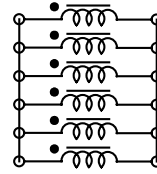
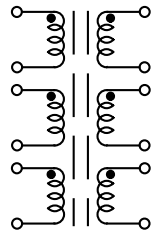


Figure 6  
Inductance:  $L$   
Current:  $6 \times I$

## Transformer



Basic Diagram  
Turns ratio:  
 $1:1:1:1:1:1$

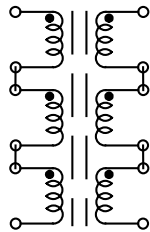


Figure 2  
Turns ratio:  
 $1:1$

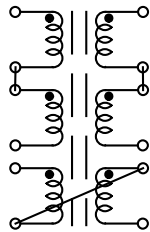


Figure 2  
Turns ratio:  
 $1:1:1$

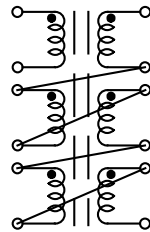


Figure 3  
Turns ratio:  
 $1:5$  or  $5:1$

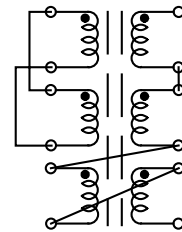


Figure 4  
Turns ratio:  
 $1:4$  or  $4:1$

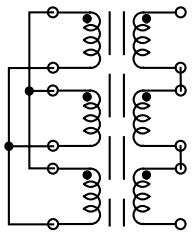


Figure 5  
Turns ratio:  
 $1:3$  or  $3:1$

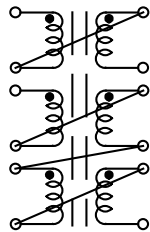


Figure 6  
Turns ratio:  
 $1:2$  or  $2:1$

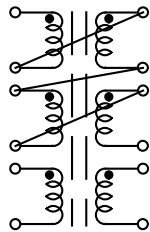


Figure 7  
Turns ratio:  
 $4:1:1$

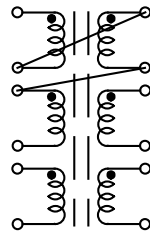


Figure 8  
Turns ratio:  
 $3:1:1:1$

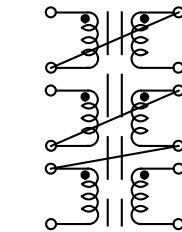


Figure 9  
Turns ratio:  
 $2:3$  or  $3:2$

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