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# 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     |

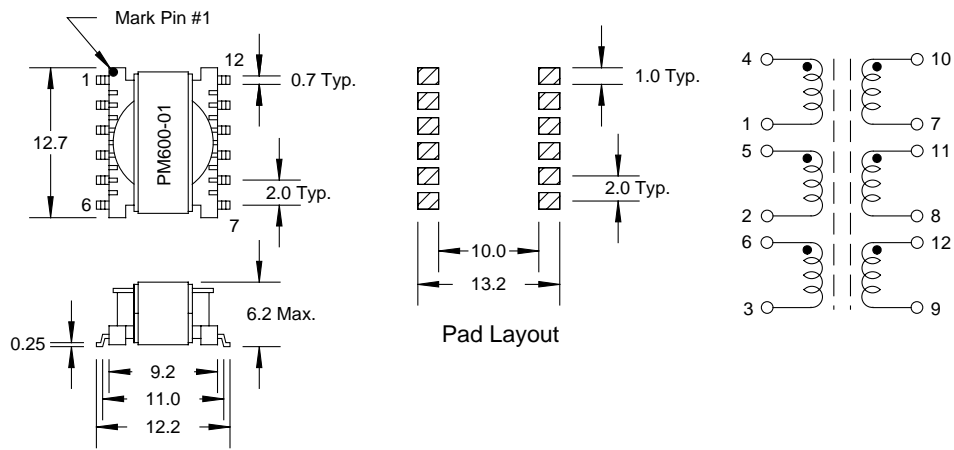
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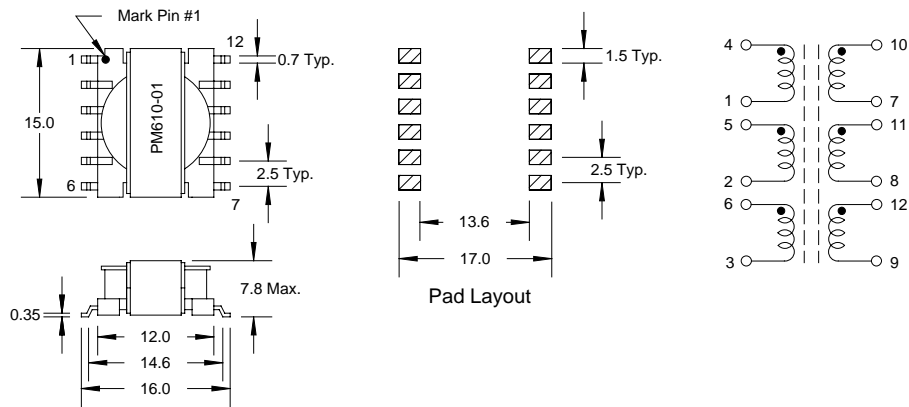
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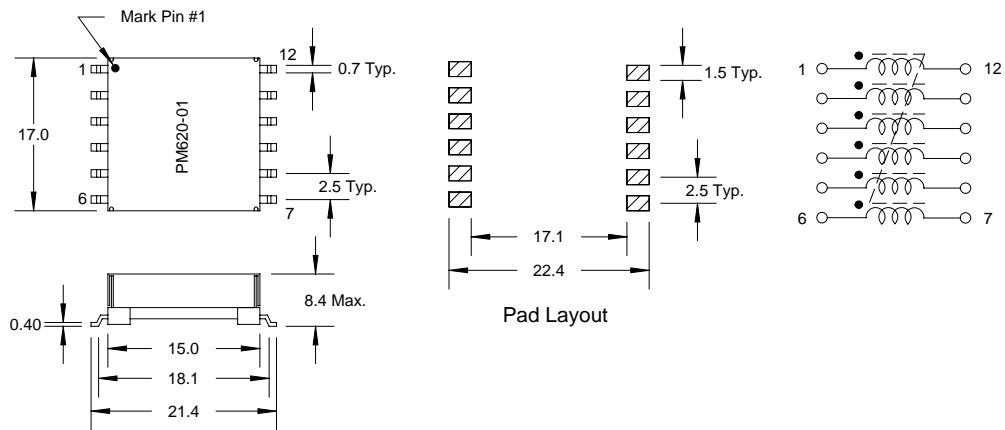
## Mechanical Dimensions: (mm)



PM600-xx



PM610-xx



PM6200-xx

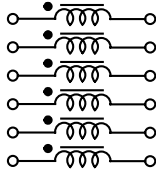
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# Typical Configurations

## Inductor



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

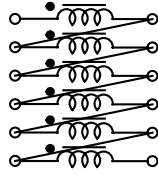


Figure 1  
Inductance:  $36 \times L$   
Current:  $I$

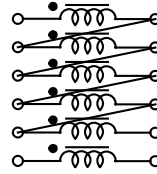


Figure 2  
Inductance:  $25 \times L$   
Current:  $I$

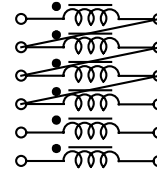


Figure 3  
Inductance:  $16 \times L$   
Current:  $I$

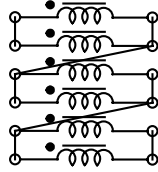


Figure 4  
Inductance:  $9 \times L$   
Current:  $2 \times I$

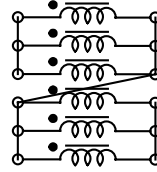


Figure 5  
Inductance:  $4 \times L$   
Current:  $3 \times I$

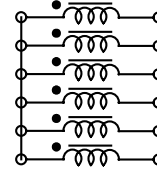
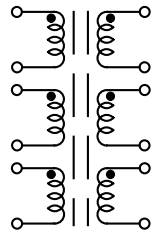


Figure 6  
Inductance:  $L$   
Current:  $6 \times I$

## Transformer



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

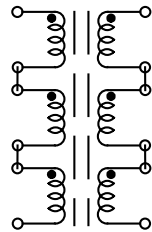


Figure 2  
Turns ratio:  
 $1:1$

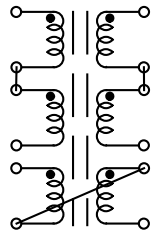


Figure 2  
Turns ratio:  
 $1:1:1$

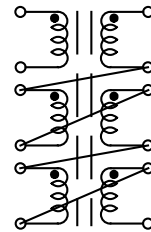


Figure 3  
Turns ratio:  
 $1:5$  or  $5:1$

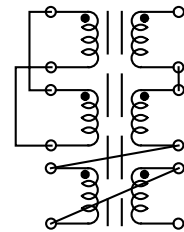


Figure 4  
Turns ratio:  
 $1:4$  or  $4:1$

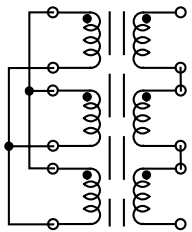


Figure 5  
Turns ratio:  
 $1:3$  or  $3:1$

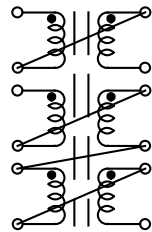


Figure 6  
Turns ratio:  
 $1:2$  or  $2:1$

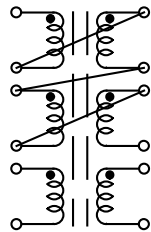


Figure 7  
Turns ratio:  
 $4:1:1$

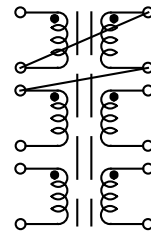


Figure 8  
Turns ratio:  
 $3:1:1:1$

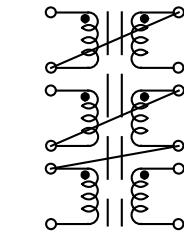


Figure 9  
Turns ratio:  
 $2:3$  or  $3:2$

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