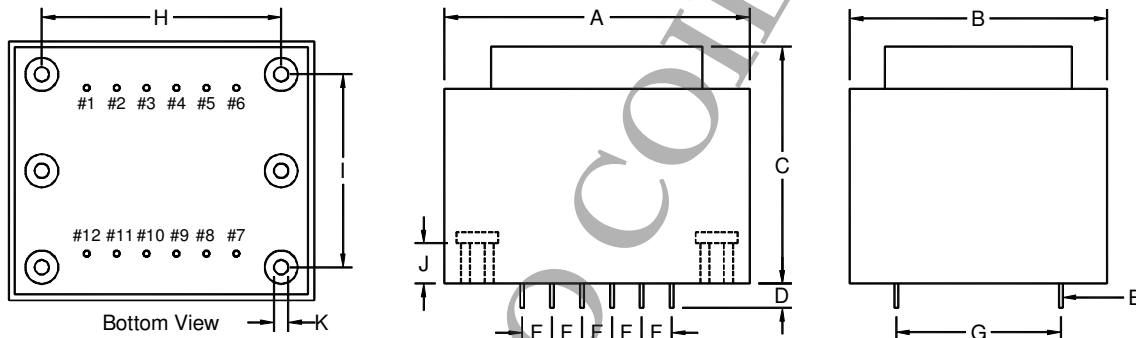


Type EI48 / 26

- Power – 15/18VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 70°C
- Dielectric strength – 4000Vrms
- Potted under vacuum
- Agency approvals
 - TUV / CE: EN61558 / EN60950
 - UL: UL5085-1 / -2
 - C-UL: CSA C22.2 #66.1 / #66.2

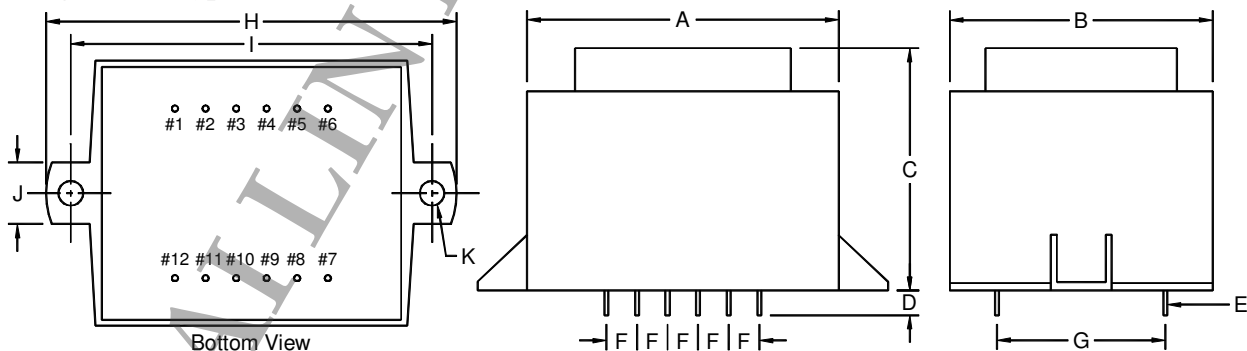
Potting Shell – Type A



| | A | B | C | D | E | F | G | H | I | J | K | Weight (g) |
|-----------------------|------|------|------|------|--------|------|------|------|------|------|------|------------|
| Dimension (mm) | 51.0 | 43.0 | 43.5 | 4.0 | SQ0.64 | 5.0 | 27.5 | 40.0 | 32.0 | 6.3 | φ2.4 | 405 |
| Tolerance (mm) | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±0.1 | ±0.2 | ±0.5 | ±1.0 | ±1.0 | min. | ±0.2 | approx. |

- Note: 1) Unused pins are omitted for standard parts. Unused pins can be provided upon request.
 2) The two fixing rails are omitted for standard parts (i.e. dimensions H, I, J & K are omitted for standard parts). The two fixing rails can be provided upon request.

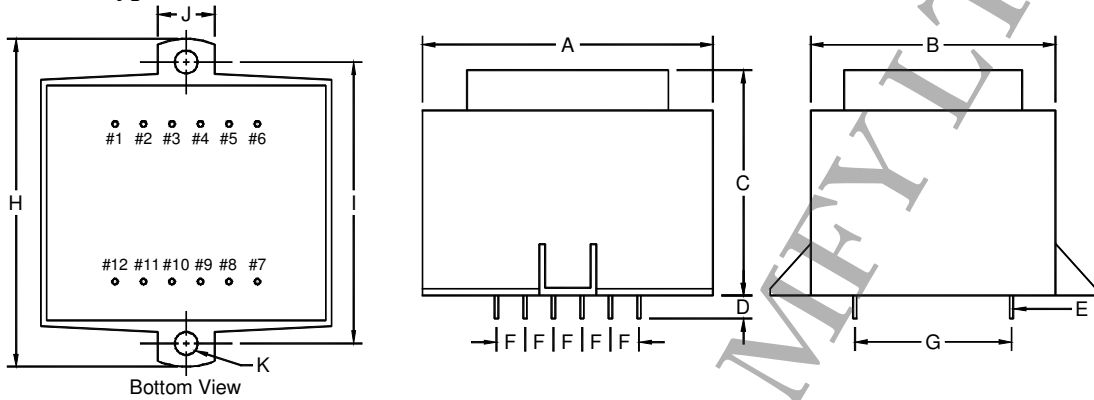
Potting Shell – Type B



| | A | B | C | D | E | F | G | H | I | J | K | Weight (g) |
|-----------------------|------|------|------|------|--------|------|------|------|------|------|------|------------|
| Dimension (mm) | 51.0 | 42.5 | 43.5 | 4.0 | SQ0.64 | 5.0 | 27.5 | 68.5 | 60.0 | 10.5 | φ4.2 | 405 |
| Tolerance (mm) | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±0.1 | ±0.2 | ±0.5 | max. | ±1.0 | ±0.5 | ±0.2 | approx. |

- Note: Unused pins are omitted for standard parts. Unused pins can be provided upon request.

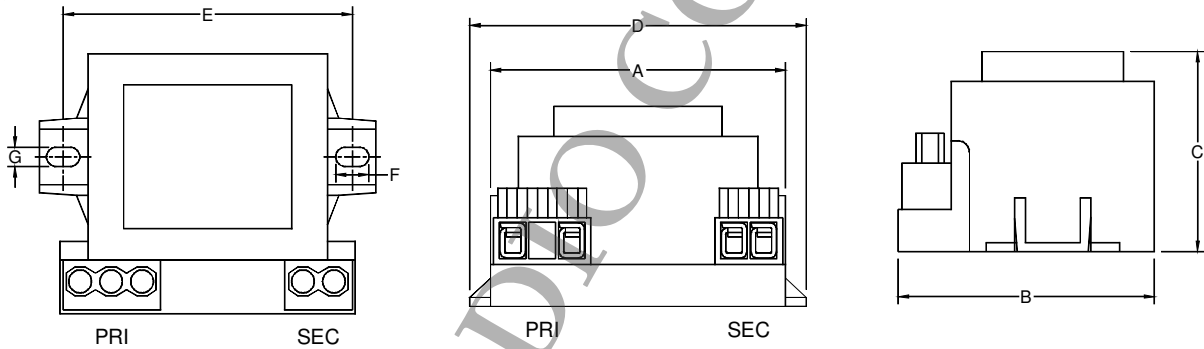
Potting Shell – Type C



| | A | B | C | D | E | F | G | H | I | J | K | Weight (g) |
|----------------|------|------|------|------|--------|------|------|------|------|------|------|------------|
| Dimension (mm) | 51.0 | 42.5 | 43.5 | 4.0 | SQ0.64 | 5.0 | 27.5 | 61.0 | 52.5 | 10.5 | φ4.2 | 405 |
| Tolerance (mm) | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±0.1 | ±0.2 | ±0.5 | max. | ±1.0 | ±0.5 | ±0.2 | approx. |

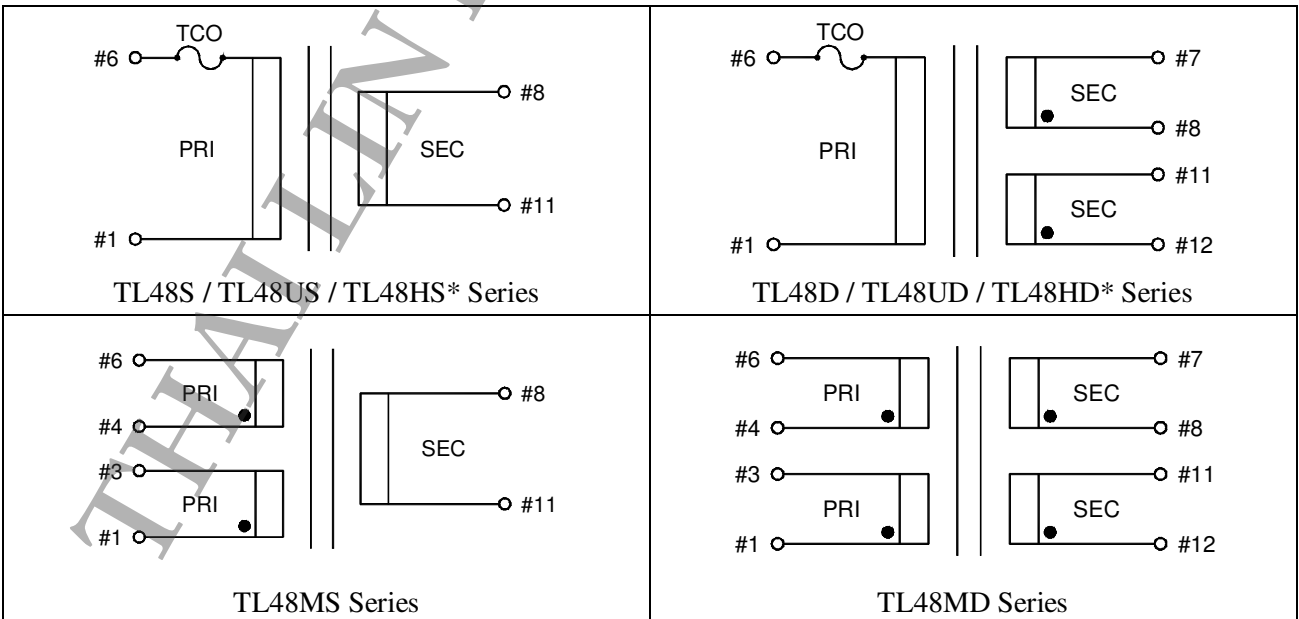
Note: Unused pins are omitted for standard parts. Unused pins can be provided upon request.

Style – Terminal Block



| | A | B | C | D | E | F | G | Weight (g) |
|----------------|------|------|------|------|------|------|------|------------|
| Dimension (mm) | 58.7 | 51.6 | 48.3 | 68.5 | 60.0 | 6.0 | 4.2 | 430 |
| Tolerance (mm) | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±0.5 | ±0.5 | ±0.2 | approx. |

Schematics



| | | | |
|--|-----------|-------------|---|
| Pins Connection (for dual windings items) | Primary | In Series | Pin 1 – Pin 6 (Pins 3, 4 short) |
| | | In Parallel | Pin 1 – Pin 6 (Pins 1, 4 short; Pins 3, 6 short) |
| | Secondary | In Series | Pin 8 – Pin 11 (Pins 7, 12 short) |
| | | In Parallel | Pin 8 – Pin 11 (Pins 7, 11 short; Pins 8, 12 short) |

* The TCO is omitted for the TL48HS & TL48HD series.

Part Number Designation

Five designations are available. Use TL48S-060-2500 as example:

- 1) TL48S-060-2500 = Potting Shell A (without fixing rails)
- 2) TL48S-060-2500 (R) = Potting Shell A (with fixing rails)
- 3) TL48S-060-2500 (SB) = Potting Shell B
- 4) TL48S-060-2500 (SC) = Potting Shell C
- 5) TL48S-060-2000TB = Terminal Block Style

Note:

- a) Terminal block style is only available for the single primary + single secondary items.
- b) Terminal block style is only available for “TUV + CE” approved items.
- c) In case of need, please add the appropriate suffixes in the part number when ordering.

| Product Series | Primary (V) | Single Secondary | | | Dual Secondary | | | ta (°C) | Agency Approval |
|--|-----------------|------------------|------------------|-----------------|-----------------|------------------|------|----------------------------------|---------------------|
| | | Part Number | Secondary Rating | | Part Number | Secondary Rating | | | |
| | | | (V) | (mA) | | (V) | (mA) | | |
| 15VA | 230 | TL48S-060-2500 | 6 | 2500 | TL48D-060-1250 | 2 x 6 | 1250 | 70 | TUV CE |
| | | TL48S-072-2083 | 7.2 | 2083 | TL48D-072-1042 | 2 x 7.2 | 1042 | | |
| | | TL48S-090-1667 | 9 | 1667 | TL48D-090-0833 | 2 x 9 | 833 | | |
| | | TL48S-100-1500 | 10 | 1500 | TL48D-100-0750 | 2 x 10 | 750 | | |
| | | TL48S-120-1250 | 12 | 1250 | TL48D-120-0625 | 2 x 12 | 625 | | |
| | | TL48S-150-1000 | 15 | 1000 | TL48D-150-0500 | 2 x 15 | 500 | | |
| | 115 | TL48US-060-2500 | 6 | 2500 | TL48UD-060-1250 | 2 x 6 | 1250 | 70 | UL5085-1/-2 C-UL |
| | | TL48US-072-2083 | 7.2 | 2083 | TL48UD-072-1042 | 2 x 7.2 | 1042 | | |
| | | TL48US-090-1667 | 9 | 1667 | TL48UD-090-0833 | 2 x 9 | 833 | | |
| | | TL48US-100-1500 | 10 | 1500 | TL48UD-100-0750 | 2 x 10 | 750 | | |
| | | TL48US-120-1250 | 12 | 1250 | TL48UD-120-0625 | 2 x 12 | 625 | | |
| | | TL48US-150-1000 | 15 | 1000 | TL48UD-150-0500 | 2 x 15 | 500 | | |
| 115 (Parallel) or 230 (Series) | TL48MS-060-2500 | 6 | 2500 | TL48MD-060-1250 | 2 x 6 | 1250 | 70 | UL5085-1/-2 C-UL TUV CE | |
| | TL48MS-072-2083 | 7.2 | 2083 | TL48MD-072-1042 | 2 x 7.2 | 1042 | | | |
| | TL48MS-090-1667 | 9 | 1667 | TL48MD-090-0833 | 2 x 9 | 833 | | | |
| | TL48MS-100-1500 | 10 | 1500 | TL48MD-100-0750 | 2 x 10 | 750 | | | |
| | TL48MS-120-1250 | 12 | 1250 | TL48MD-120-0625 | 2 x 12 | 625 | | | |
| | TL48MS-150-1000 | 15 | 1000 | TL48MD-150-0500 | 2 x 15 | 500 | | | |
| 400 | TL48HS-060-2500 | 6 | 2500 | TL48HD-060-1250 | 2 x 6 | 1250 | 70 | -- | |
| | TL48HS-072-2083 | 7.2 | 2083 | TL48HD-072-1042 | 2 x 7.2 | 1042 | | | |
| | TL48HS-090-1667 | 9 | 1667 | TL48HD-090-0833 | 2 x 9 | 833 | | | |
| | TL48HS-100-1500 | 10 | 1500 | TL48HD-100-0750 | 2 x 10 | 750 | | | |
| | TL48HS-120-1250 | 12 | 1250 | TL48HD-120-0625 | 2 x 12 | 625 | | | |
| | TL48HS-150-1000 | 15 | 1000 | TL48HD-150-0500 | 2 x 15 | 500 | | | |

Note: 1) TL48S & TL48D series are fail-safe transformers.

2) TL48MS, TL48MD, TL48HS & TL48HD series are non-short-circuit proof transformers.

| Product Series | Primary (V) | Single Secondary | | | Dual Secondary | | | ta (°C) | Agency Approval |
|-----------------|--|------------------|------------------|-----------------|-----------------|------------------|------|----------------------------------|----------------------------------|
| | | Part Number | Secondary Rating | | Part Number | Secondary Rating | | | |
| | | | (V) | (mA) | | (V) | (mA) | | |
| 18VA | 230 | TL48S-060-3000 | 6 | 3000 | TL48D-060-1500 | 2 x 6 | 1500 | 70 | TUV CE |
| | | TL48S-072-2500 | 7.2 | 2500 | TL48D-072-1250 | 2 x 7.2 | 1250 | | |
| | | TL48S-090-2000 | 9 | 2000 | TL48D-090-1000 | 2 x 9 | 1000 | | |
| | | TL48S-100-1800 | 10 | 1800 | TL48D-100-0900 | 2 x 10 | 900 | | |
| | | TL48S-120-1500 | 12 | 1500 | TL48D-120-0750 | 2 x 12 | 750 | | |
| | | TL48S-150-1200 | 15 | 1200 | TL48D-150-0600 | 2 x 15 | 600 | | |
| | | TL48S-180-1000 | 18 | 1000 | TL48D-180-0500 | 2 x 18 | 500 | | |
| | | TL48S-240-0750 | 24 | 750 | TL48D-240-0375 | 2 x 24 | 375 | | |
| | 115 | TL48US-060-3000 | 6 | 3000 | TL48UD-060-1500 | 2 x 6 | 1500 | 70 | UL5085-1/-2 C-UL |
| | | TL48US-072-2500 | 7.2 | 2500 | TL48UD-072-1250 | 2 x 7.2 | 1250 | | |
| | | TL48US-090-2000 | 9 | 2000 | TL48UD-090-1000 | 2 x 9 | 1000 | | |
| | | TL48US-100-1800 | 10 | 1800 | TL48UD-100-0900 | 2 x 10 | 900 | | |
| | | TL48US-120-1500 | 12 | 1500 | TL48UD-120-0750 | 2 x 12 | 750 | | |
| | | TL48US-150-1200 | 15 | 1200 | TL48UD-150-0600 | 2 x 15 | 600 | | |
| | | TL48US-180-1000 | 18 | 1000 | TL48UD-180-0500 | 2 x 18 | 500 | | |
| | | TL48US-240-0750 | 24 | 750 | TL48UD-240-0375 | 2 x 24 | 375 | | |
| | 115 (Parallel) or 230 (Series) | TL48MS-060-3000 | 6 | 3000 | TL48MD-060-1500 | 2 x 6 | 1500 | 70 | UL5085-1/-2 C-UL TUV CE |
| | | TL48MS-072-2500 | 7.2 | 2500 | TL48MD-072-1250 | 2 x 7.2 | 1250 | | |
| | | TL48MS-090-2000 | 9 | 2000 | TL48MD-090-1000 | 2 x 9 | 1000 | | |
| | | TL48MS-100-1800 | 10 | 1800 | TL48MD-100-0900 | 2 x 10 | 900 | | |
| TL48MS-120-1500 | | 12 | 1500 | TL48MD-120-0750 | 2 x 12 | 750 | | | |
| TL48MS-150-1200 | | 15 | 1200 | TL48MD-150-0600 | 2 x 15 | 600 | | | |
| TL48MS-180-1000 | | 18 | 1000 | TL48MD-180-0500 | 2 x 18 | 500 | | | |
| TL48MS-240-0750 | | 24 | 750 | TL48MD-240-0375 | 2 x 24 | 375 | | | |
| 400 | TL48HS-060-3000 | 6 | 3000 | TL48HD-060-1500 | 2 x 6 | 1500 | 70 | UL5085-1/-2 C-UL TUV CE | |
| | TL48HS-072-2500 | 7.2 | 2500 | TL48HD-072-1250 | 2 x 7.2 | 1250 | | | |
| | TL48HS-090-2000 | 9 | 2000 | TL48HD-090-1000 | 2 x 9 | 1000 | | | |
| | TL48HS-100-1800 | 10 | 1800 | TL48HD-100-0900 | 2 x 10 | 900 | | | |
| | TL48HS-120-1500 | 12 | 1500 | TL48HD-120-0750 | 2 x 12 | 750 | | | |
| | TL48HS-150-1200 | 15 | 1200 | TL48HD-150-0600 | 2 x 15 | 600 | | | |
| | TL48HS-180-1000 | 18 | 1000 | TL48HD-180-0500 | 2 x 18 | 500 | | | |
| | TL48HS-240-0750 | 24 | 750 | TL48HD-240-0375 | 2 x 24 | 375 | | | |

- Note: 1) TL48S & TL48D series are fail-safe transformers.
2) TL48MS, TL48MD, TL48HS & TL48HD series are non-short-circuit proof transformers.