

## Commander Class

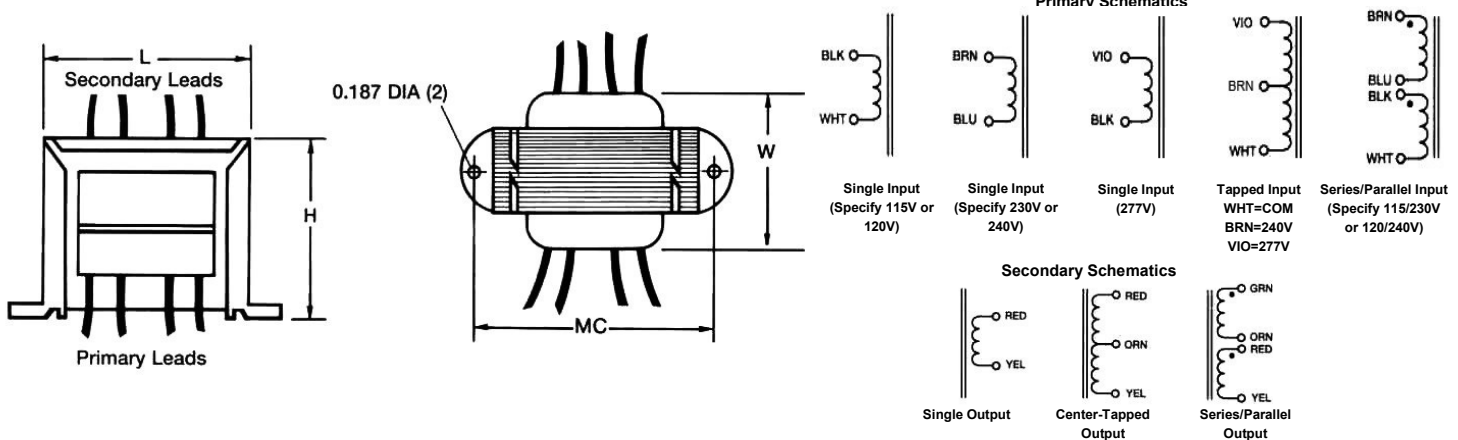
- Flame Retardant, UL 94V0 Rating
- High Efficiency
- 2.4VA to 100VA Power Rating
- Single or Dual Primary, 115V, 115/230V or 230V  
(Optional 120, 120/240, 240, 277, or 240/277V)
- 50/60Hz (Economy 60Hz-only Models Available)
- Center-tapped Secondary (Optional Single or Dual)
- Any Secondary Voltage from 5V to 120V in 1V Increments
- Insulation Material 130°C Standard (Optional 200°C)
- Optional Internal Current or Thermal Protector
- High Isolation, 2500 Vrms, 100% Tested
- Low Capacitive Coupling, no Electrostatic Shield Needed
- Color Coded Hook-up Wires

### Flame Retardant Material



### Agency Approvals:

- UL/cUL 5085-2 Recognized (File E47299)
- UL 1446 Recognized Insulation system (File E95662)
- UL/cUL 5085-3 Class 2 Recognized (File E43609), Only L002 (up to 24V)



| VA Rating |       | Secondary                                                                            | Dimensions (Inches) |      |      |      |
|-----------|-------|--------------------------------------------------------------------------------------|---------------------|------|------|------|
|           |       |                                                                                      | L                   | W    | H    | MC   |
| L002      | 2.4VA | Parallel<br>from 5V to 60V<br><br>Series, single & center-tapped<br>from 10V to 120V | 1.45                | 1.40 | 1.19 | 1.75 |
| L006      | 6VA   |                                                                                      | 1.70                | 1.50 | 1.38 | 2.00 |
| L012      | 12VA  |                                                                                      | 1.95                | 1.64 | 1.62 | 2.38 |
| L020      | 20VA  |                                                                                      | 2.32                | 1.60 | 1.94 | 2.81 |
| L030      | 30VA  |                                                                                      | 2.32                | 2.00 | 1.94 | 2.81 |
| L040      | 40VA  |                                                                                      | 2.70                | 1.95 | 2.25 | 3.12 |
| L050      | 50VA  |                                                                                      | 2.70                | 2.13 | 2.25 | 3.12 |
| L056      | 56VA  |                                                                                      | 2.70                | 2.13 | 2.25 | 3.12 |
| L075      | 75VA  |                                                                                      | 3.08                | 2.25 | 2.56 | 3.56 |
| L100      | 100VA |                                                                                      | 3.08                | 2.50 | 2.56 | 3.56 |

Take advantage of these pre-designed models, or let us customize to your requirements. That's our specialty.

## Commander Class



### Partial Selection Guide (Standard Stock)

| Part Number     |                     |                 |                 | Part Number     |                     |                 |               |
|-----------------|---------------------|-----------------|-----------------|-----------------|---------------------|-----------------|---------------|
| 115V<br>Primary | 115/230V<br>Primary | 230V<br>Primary | Secondary       | 115V<br>Primary | 115/230V<br>Primary | 230V<br>Primary | Secondary     |
| L002-1-510X*    | L002-2-510X*        | L002-3-510X*    | 10VCT @ 250mA   | L002-1-520X*    | L002-2-520X*        | L002-3-520X*    | 20VCT @ 120mA |
| L006-1-510X     | L006-2-510X         | L006-3-510X     | 10VCT @ 600mA   | L006-1-520X     | L006-2-520X         | L006-3-520X     | 20VCT @ 300mA |
| L012-1-510X     | L012-2-510X         | L012-3-510X     | 10VCT @ 1.2A    | L012-1-520X     | L012-2-520X         | L012-3-520X     | 20VCT @ 600mA |
| L020-1-510X     | L020-2-510X         | L020-3-510X     | 10VCT @ 2.0A    | L020-1-520X     | L020-2-520X         | L020-3-520X     | 20VCT @ 1.0A  |
| L030-1-510X     | L030-2-510X         | L030-3-510X     | 10VCT @ 3.0A    | L030-1-520X     | L030-2-520X         | L030-3-520X     | 20VCT @ 1.50A |
| L040-1-510X     | L040-2-510X         | L040-3-510X     | 10VCT @ 4.0A    | L040-1-520X     | L040-2-520X         | L040-3-520X     | 20VCT @ 2.0A  |
| L050-1-510X     | L050-2-510X         | L050-3-510X     | 10VCT @ 5.0A    | L050-1-520X     | L050-2-520X         | L050-3-520X     | 20VCT @ 2.5A  |
| L056-1-510X     | L056-2-510X         | L056-3-510X     | 10VCT @ 5.6A    | L056-1-520X     | L056-2-520X         | L056-3-520X     | 20VCT @ 2.8A  |
| L075-1-510X     | L075-2-510X         | L075-3-510X     | 10VCT @ 7.5A    | L075-1-520X     | L075-2-520X         | L075-3-520X     | 20VCT @ 3.8A  |
| L100-1-510X     | L100-2-510X         | L100-3-510X     | 10VCT @ 10A     | L100-1-520X     | L100-2-520X         | L100-3-520X     | 20VCT @ 5.0A  |
| L002-1-512X*    | L002-2-512X*        | L002-3-512X*    | 12.6VCT @ 200mA | L002-1-524X*    | L002-2-524X*        | L002-3-524X*    | 24VCT @ 100mA |
| L006-1-512X     | L006-2-512X         | L006-3-512X     | 12.6VCT @ 500mA | L006-1-524X     | L006-2-524X         | L006-3-524X     | 24VCT @ 250mA |
| L012-1-512X     | L012-2-512X         | L012-3-512X     | 12.6VCT @ 1.0A  | L012-1-524X     | L012-2-524X         | L012-3-524X     | 24VCT @ 500mA |
| L020-1-512X     | L020-2-512X         | L020-3-512X     | 12.6VCT @ 1.6A  | L020-1-524X     | L020-2-524X         | L020-3-524X     | 24VCT @ 800mA |
| L030-1-512X     | L030-2-512X         | L030-3-512X     | 12.6VCT @ 2.5A  | L030-1-524X     | L030-2-524X         | L030-3-524X     | 24VCT @ 1.25A |
| L040-1-512X     | L040-2-512X         | L040-3-512X     | 12.6VCT @ 3.2A  | L040-1-524X     | L040-2-524X         | L040-3-524X     | 24VCT @ 1.6A  |
| L050-1-512X     | L050-2-512X         | L050-3-512X     | 12.6VCT @ 4.0A  | L050-1-524X     | L050-2-524X         | L050-3-524X     | 24VCT @ 2.0A  |
| L056-1-512X     | L056-2-512X         | L056-3-512X     | 12.6VCT @ 4.4A  | L056-1-524X     | L056-2-524X         | L056-3-524X     | 24VCT @ 2.3A  |
| L075-1-512X     | L075-2-512X         | L075-3-512X     | 12.6VCT @ 6.0A  | L075-1-524X     | L075-2-524X         | L075-3-524X     | 24VCT @ 3.1A  |
| L100-1-512X     | L100-2-512X         | L100-3-512X     | 12.6VCT @ 8.0A  | L100-1-524X     | L100-2-524X         | L100-3-524X     | 24VCT @ 4.0A  |
| L002-1-516X*    | L002-2-516X*        | L002-3-516X*    | 16VCT @ 150mA   | L002-1-528X     | L002-2-528X         | L002-3-528X     | 28VCT @ 85mA  |
| L006-1-516X     | L006-2-516X         | L006-3-516X     | 16VCT @ 400mA   | L006-1-528X     | L006-2-528X         | L006-3-528X     | 28VCT @ 200mA |
| L012-1-516X     | L012-2-516X         | L012-3-516X     | 16VCT @ 800mA   | L012-1-528X     | L012-2-528X         | L012-3-528X     | 28VCT @ 420mA |
| L020-1-516X     | L020-2-516X         | L020-3-516X     | 16VCT @ 1.25A   | L020-1-528X     | L020-2-528X         | L020-3-528X     | 28VCT @ 700mA |
| L030-1-516X     | L030-2-516X         | L030-3-516X     | 16VCT @ 2.0A    | L030-1-528X     | L030-2-528X         | L030-3-528X     | 28VCT @ 1.0A  |
| L040-1-516X     | L040-2-516X         | L040-3-516X     | 16VCT @ 2.5A    | L040-1-528X     | L040-2-528X         | L040-3-528X     | 28VCT @ 1.4A  |
| L050-1-516X     | L050-2-516X         | L050-3-516X     | 16VCT @ 3.2A    | L050-1-528X     | L050-2-528X         | L050-3-528X     | 28VCT @ 1.8A  |
| L056-1-516X     | L056-2-516X         | L056-3-516X     | 16VCT @ 3.5A    | L056-1-528X     | L056-2-528X         | L056-3-528X     | 28VCT @ 2.0A  |
| L075-1-516X     | L075-2-516X         | L075-3-516X     | 16VCT @ 5.0A    | L075-1-528X     | L075-2-528X         | L075-3-528X     | 28VCT @ 2.7A  |
| L100-1-516X     | L100-2-516X         | L100-3-516X     | 16VCT @ 6.25A   | L100-1-528X     | L100-2-528X         | L100-3-528X     | 28VCT @ 3.6A  |

Models marked with \* are also UL 5085-3 Class 2 recognized (see Page 22)

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### Partial Selection Guide (Standard Stock)

| Part Number  |                  |              |               | Part Number  |                  |              |                |
|--------------|------------------|--------------|---------------|--------------|------------------|--------------|----------------|
| 115V Primary | 115/230V Primary | 230V Primary | Secondary     | 115V Primary | 115/230V Primary | 230V Primary | Secondary      |
| L002-1-536X  | L002-2-536X      | L002-3-536X  | 36VCT @ 65mA  | L002-1-556X  | L002-2-556X      | L002-3-556X  | 56VCT @ 45mA   |
| L006-1-536X  | L006-2-536X      | L006-3-536X  | 36VCT @ 170mA | L006-1-556X  | L006-2-556X      | L006-3-556X  | 56VCT @ 100mA  |
| L012-1-536X  | L012-2-536X      | L012-3-536X  | 36VCT @ 350mA | L012-1-556X  | L012-2-556X      | L012-3-556X  | 56VCT @ 220mA  |
| L020-1-536X  | L020-2-536X      | L020-3-536X  | 36VCT @ 600mA | L020-1-556X  | L020-2-556X      | L020-3-556X  | 56VCT @ 400mA  |
| L030-1-536X  | L030-2-536X      | L030-3-536X  | 36VCT @ 850mA | L030-1-556X  | L030-2-556X      | L030-3-556X  | 56VCT @ 540mA  |
| L040-1-536X  | L040-2-536X      | L040-3-536X  | 36VCT @ 1.0A  | L040-1-556X  | L040-2-556X      | L040-3-556X  | 56VCT @ 700mA  |
| L050-1-536X  | L050-2-536X      | L050-3-536X  | 36VCT @ 1.4A  | L050-1-556X  | L050-2-556X      | L050-3-556X  | 56VCT @ 900mA  |
| L056-1-536X  | L056-2-536X      | L056-3-536X  | 36VCT @ 1.6A  | L056-1-556X  | L056-2-556X      | L056-3-556X  | 56VCT @ 1.0A   |
| L075-1-536X  | L075-2-536X      | L075-3-536X  | 36VCT @ 2.0A  | L075-1-556X  | L075-2-556X      | L075-3-556X  | 56VCT @ 1.3A   |
| L100-1-536X  | L100-2-536X      | L100-3-536X  | 36VCT @ 2.8A  | L100-1-556X  | L100-2-556X      | L100-3-556X  | 56VCT @ 1.8A   |
| L002-1-548X  | L002-2-548X      | L002-3-548X  | 48VCT @ 50mA  | L002-1-620X  | L002-2-620X      | L002-3-620X  | 120VCT @ 20mA  |
| L006-1-548X  | L006-2-548X      | L006-3-548X  | 48VCT @ 125mA | L006-1-620X  | L006-2-620X      | L006-3-620X  | 120VCT @ 50mA  |
| L012-1-548X  | L012-2-548X      | L012-3-548X  | 48VCT @ 250mA | L012-1-620X  | L012-2-620X      | L012-3-620X  | 120VCT @ 100mA |
| L020-1-548X  | L020-2-548X      | L020-3-548X  | 48VCT @ 400mA | L020-1-620X  | L020-2-620X      | L020-3-620X  | 120VCT @ 200mA |
| L030-1-548X  | L030-2-548X      | L030-3-548X  | 48VCT @ 630mA | L030-1-620X  | L030-2-620X      | L030-3-620X  | 120VCT @ 250mA |
| L040-1-548X  | L040-2-548X      | L040-3-548X  | 48VCT @ 800mA | L040-1-620X  | L040-2-620X      | L040-3-620X  | 120VCT @ 300mA |
| L050-1-548X  | L050-2-548X      | L050-3-548X  | 48VCT @ 1.0A  | L050-1-620X  | L050-2-620X      | L050-3-620X  | 120VCT @ 400mA |
| L056-1-548X  | L056-2-548X      | L056-3-548X  | 48VCT @ 1.2A  | L056-1-620X  | L056-2-620X      | L056-3-620X  | 120VCT @ 500mA |
| L075-1-548X  | L075-2-548X      | L075-3-548X  | 48VCT @ 1.6A  | L075-1-620X  | L075-2-620X      | L075-3-620X  | 120VCT @ 600mA |
| L100-1-548X  | L100-2-548X      | L100-3-548X  | 48VCT @ 2.0A  | L100-1-620X  | L100-2-620X      | L100-3-620X  | 120VCT @ 850mA |

Over 159,000 additional Commander Class model configurations available!

Refer to the Part Numbering Scheme on the next page to **configure your own part** with following options:

- Primary: 120V, 120/240V, 240V, 277V, or 240/277V
- Secondary: 5V to 120V, in 1V increments
- Frequency: 50/60Hz, or economy 60Hz-only
- With or without current or thermal protector(s)
- Temperature Class: 130°C, or 200°C

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## Commander Class

Class 2  US



### Examples:

L075-2A724X = 75VA, Dual 115/230V (series/parallel) Primary, 50/60Hz, 130°C thermal cutoff, Single 24V Secondary



|                                                                                                                                                                       | LXXX         | -X | X | XXX | X | XXXX |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----|---|-----|---|------|
| <b>Frame Mount with Lead Wires</b>                                                                                                                                    |              |    |   |     |   |      |
| <b>Rating:</b>                                                                                                                                                        |              |    |   |     |   |      |
| L002 = 2.4VA, models up to 24V are also Class 2 (see Page 22)                                                                                                         |              |    |   |     |   |      |
| L006 = 6VA                                                                                                                                                            | L050 = 50VA  |    |   |     |   |      |
| L012 = 12VA                                                                                                                                                           | L056 = 56VA  |    |   |     |   |      |
| L020 = 20VA                                                                                                                                                           | L075 = 75VA  |    |   |     |   |      |
| L030 = 30VA                                                                                                                                                           | L100 = 100VA |    |   |     |   |      |
| L040 = 40VA                                                                                                                                                           |              |    |   |     |   |      |
| <b>Primary Voltages:</b>                                                                                                                                              |              |    |   |     |   |      |
| -1 = 120                                                                                                                                                              |              |    |   |     |   |      |
| -2 = 120/240 Dual (series / parallel)                                                                                                                                 |              |    |   |     |   |      |
| -3 = 240                                                                                                                                                              |              |    |   |     |   |      |
| -4 = 277, unavailable on Class 2 models                                                                                                                               |              |    |   |     |   |      |
| -5 = 240/277 (tapped), unavailable on Class 2 models                                                                                                                  |              |    |   |     |   |      |
| <b>Optional Internal Protector:</b>                                                                                                                                   |              |    |   |     |   |      |
| - (dash) = No internal protector                                                                                                                                      |              |    |   |     |   |      |
| A through Z = Over-current and/or over-temperature protection<br>(Contact for list of available protectors)                                                           |              |    |   |     |   |      |
| <b>Secondary Voltages (10 through 120, in 1V Increments):</b>                                                                                                         |              |    |   |     |   |      |
| 010 through 120 = Dual Secondary (series / parallel)<br>Number represents the voltage of the series connection. <i>Example: "024" = 12V (parallel) / 24V (series)</i> |              |    |   |     |   |      |
| 510 through 620 = Center-tapped Secondary<br>Number represents the total voltage plus 500. <i>Example: "524" = 24V with center-tap (12V on each side)</i>             |              |    |   |     |   |      |
| 710 through 820 = Single Secondary<br>Number represents the voltage plus 700. <i>Example: "724" = 24V</i>                                                             |              |    |   |     |   |      |
| <b>Indication of Adjustment in Primary Voltage:</b>                                                                                                                   |              |    |   |     |   |      |
| Blank = 120V, 120/240V or 240V, as selected above                                                                                                                     |              |    |   |     |   |      |
| X = Primary 115V instead of 120 and/or 230V instead of 240V                                                                                                           |              |    |   |     |   |      |
| <b>Frequency:</b>                                                                                                                                                     |              |    |   |     |   |      |
| Blank = 50/60Hz                                                                                                                                                       |              |    |   |     |   |      |
| -60HZ = Economy 60Hz-only                                                                                                                                             |              |    |   |     |   |      |

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