

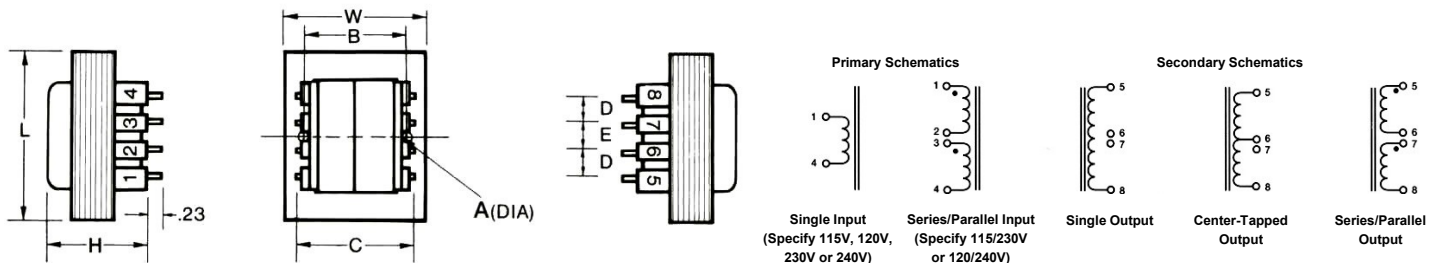
Captain Class

- Flame Retardant, UL 94V0 Rating
- High Efficiency
- 1.1 VA to 36 VA Power Rating
- Single or Dual Primary, 115V, 115/230V or 230V (Optional 120V, 120/240V or 240V)
- 50/60Hz (Economy 60Hz-only Models Available)
- Dual Secondary (Optional Single or Center-tapped)
- Any Secondary Voltage from 5V to 120V in 1V Increments
- Insulation Material 130°C Standard (Optional 200°C)
- Optional Internal Current or Thermal Protectors
- High Isolation, 2500V, 100% Tested
- Low Capacitive Coupling, no Electrostatic Shield Needed

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 P001 (up to 20V) & P002 (up to 24V)

Flame Retardant Materials



VA Rating		Secondary Voltage	Dimensions (Inches)								
			L	W	H	A	B	C	D	E	Pins
P001	1.1VA	Parallel from 5V to 60V	1.38	1.13	0.93	-	-	1.22	0.25	0.25	0.041 x 0.020
P002	2.4VA		1.38	1.13	1.17	-	-	1.22	0.25	0.25	0.041 x 0.020
P006	6VA		1.63	1.31	1.29	0.125	1.06	1.28	0.25	0.35	0.041 x 0.020
P012	12VA	Series, single, or center-tapped from 10V to 120V	1.88	1.56	1.41	0.150	1.25	1.40	0.30	0.40	0.041 x 0.020
P020	20VA		2.25	1.88	1.41	0.218*	1.66	1.59	0.30	0.40	0.041 x 0.020
P036	36VA		2.63	2.19	1.56	0.218*	1.94	1.84	0.40	0.40	0.041 x 0.020

* = Slots

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

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Partial Selection Guide (Standard Stock)

Part Number					Part Number				
115V Primary	115/230V Primary	230V Primary	Series Secondary	Parallel Secondary	115V Primary	115/230V Primary	230V Primary	Series Secondary	Parallel Secondary
P001-1-010X*	P001-2-010X*	P001-3-010X*	10VCT @ 0.11A	5V @ 0.22A	P001-1-028X	P001-2-028X	P001-3-028X	28VCT @ 0.04A	14V @ 0.08A
P002-1-010X*	P002-2-010X*	P002-3-010X*	10VCT @ 0.25A	5V @ 0.5A	P002-1-028X	P002-2-028X	P002-3-028X	28VCT @ 0.085A	14V @ 0.17A
P006-1-010X	P006-2-010X	P006-3-010X	10VCT @ 0.6A	5V @ 1.2A	P006-1-028X	P006-2-028X	P006-3-028X	28VCT @ 0.2A	14V @ 0.4A
P012-1-010X	P012-2-010X	P012-3-010X	10VCT @ 1.2A	5V @ 2.4A	P012-1-028X	P012-2-028X	P012-3-028X	28VCT @ 0.42A	14V @ 0.84A
P020-1-010X	P020-2-010X	P020-3-010X	10VCT @ 2.0A	5V @ 4.0A	P020-1-028X	P020-2-028X	P020-3-028X	28VCT @ 0.7A	14V @ 1.4A
P036-1-010X	P036-2-010X	P036-3-010X	10VCT @ 3.6A	5V @ 7.2A	P036-1-028X	P036-2-028X	P036-3-028X	28VCT @ 1.3A	14V @ 2.6A
P001-1-012X*	P001-2-012X*	P001-3-012X*	12.6VCT @ 0.09A	6.3V @ 0.18A	P001-1-036X	P001-2-036X	P001-3-036X	36VCT @ 0.03A	18V @ 0.06A
P002-1-012X*	P002-2-012X*	P002-3-012X*	12.6VCT @ 0.2A	6.3V @ 0.4A	P002-1-036X	P002-2-036X	P002-3-036X	36VCT @ 0.065A	18V @ 0.13A
P006-1-012X	P006-2-012X	P006-3-012X	12.6VCT @ 0.5A	6.3V @ 1.0A	P006-1-036X	P006-2-036X	P006-3-036X	36VCT @ 0.17A	18V @ 0.34A
P012-1-012X	P012-2-012X	P012-3-012X	12.6VCT @ 1.0A	6.3V @ 2.0A	P012-1-036X	P012-2-036X	P012-3-036X	36VCT @ 0.35A	18V @ 0.7A
P020-1-012X	P020-2-012X	P020-3-012X	12.6VCT @ 1.6A	6.3V @ 3.2A	P020-1-036X	P020-2-036X	P020-3-036X	36VCT @ 0.55A	18V @ 1.1A
P036-1-012X	P036-2-012X	P036-3-012X	12.6VCT @ 2.85A	6.3V @ 5.7A	P036-1-036X	P036-2-036X	P036-3-036X	36VCT @ 1.0A	18V @ 2.0A
P001-1-016X*	P001-2-016X*	P001-3-016X*	16VCT @ 0.07A	8V @ 0.14A	P001-1-048X	P001-2-048X	P001-3-048X	48VCT @ 0.023A	24V @ 0.046A
P002-1-016X*	P002-2-016X*	P002-3-016X*	16VCT @ 0.15A	8V @ 0.3A	P002-1-048X	P002-2-048X	P002-3-048X	48VCT @ 0.05A	24V @ 0.1A
P006-1-016X	P006-2-016X	P006-3-016X	16VCT @ 0.4A	8V @ 0.8A	P006-1-048X	P006-2-048X	P006-3-048X	48VCT @ 0.125A	24V @ 0.25A
P012-1-016X	P012-2-016X	P012-3-016X	16VCT @ 0.8A	8V @ 1.6A	P012-1-048X	P012-2-048X	P012-3-048X	48VCT @ 0.25A	24V @ 0.5A
P020-1-016X	P020-2-016X	P020-3-016X	16VCT @ 1.25A	8V @ 2.5A	P020-1-048X	P020-2-048X	P020-3-048X	48CT @ 0.4A	24V @ 0.8A
P036-1-016X	P036-2-016X	P036-3-016X	16VCT @ 2.25A	8V @ 4.5A	P036-1-048X	P036-2-048X	P036-3-048X	48VCT @ 0.75A	24V @ 1.5A
P001-1-020X*	P001-2-020X*	P001-3-020X*	20VCT @ 0.055A	10V @ 0.11A	P001-1-056X	P001-2-056X	P001-3-056X	56VCT @ 0.02A	28V @ 0.04A
P002-1-020X*	P002-2-020X*	P002-3-020X*	20VCT @ 0.12A	10V @ 0.24A	P002-1-056X	P002-2-056X	P002-3-056X	56VCT @ 0.045A	28V @ 0.09A
P006-1-020X	P006-2-020X	P006-3-020X	20VCT @ 0.3A	10V @ 0.6A	P006-1-056X	P006-2-056X	P006-3-056X	56VCT @ 0.11A	28V @ 0.22A
P012-1-020X	P012-2-020X	P012-3-020X	20VCT @ 0.6A	10V @ 1.2A	P012-1-056X	P012-2-056X	P012-3-056X	56VCT @ 0.22A	28V @ 0.44A
P020-1-020X	P020-2-020X	P020-3-020X	20VCT @ 1.0A	10V @ 2.0A	P020-1-056X	P020-2-056X	P020-3-056X	56VCT @ 0.35A	28V @ 0.7A
P036-1-020X	P036-2-020X	P036-3-020X	20VCT @ 1.8A	10V @ 3.6A	P036-1-056X	P036-2-056X	P036-3-056X	56VCT @ 0.65A	28V @ 1.3A
P001-1-024X	P001-2-024X	P001-3-024X	24VCT @ 0.045A	12V @ 0.09A	P001-1-120X	P001-2-120X	P001-3-120X	120VCT @ 0.01A	60V @ 0.02A
P002-1-024X*	P002-2-024X*	P002-3-024X*	24VCT @ 0.1A	12V @ 0.2A	P002-1-120X	P002-2-120X	P002-3-120X	120VCT @ 0.02A	60V @ 0.04A
P006-1-024X	P006-2-024X	P006-3-024X	24VCT @ 0.25A	12V @ 0.5A	P006-1-120X	P006-2-120X	P006-3-120X	120VCT @ 0.05A	60V @ 0.1A
P012-1-024X	P012-2-024X	P012-3-024X	24VCT @ 0.5A	12V @ 1.0A	P012-1-120X	P012-2-120X	P012-3-120X	120VCT @ 0.1A	60V @ 0.2A
P020-1-024X	P020-2-024X	P020-3-024X	24VCT @ 0.8A	12V @ 1.6A	P020-1-120X	P020-2-120X	P020-3-120X	120VCT @ 0.16A	60V @ 0.32A
P036-1-024X	P036-2-024X	P036-3-024X	24VCT @ 1.5A	12V @ 3.0A	P036-1-120X	P036-2-120X	P036-3-120X	120VCT @ 0.3A	60V @ 0.6A

Models marked with * are also UL 5085-3 Class 2 recognized (see Page 9)

Over 95,000 additional Captain 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, or 240V
- 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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Examples:

P006-2-724X = 6VA, Dual 115/230V (series/parallel) Primary, 50/60Hz, no internal protector, Single 24V Secondary
 P006-2-724 = Same as above except 120/240V Primary
 P006-1A024 60HZ = 6VA, Single 120V Primary, 60Hz only, 130°C thermal cutoff, Dual 12/24V (series/parallel) Secondary



Printed Circuit Mount	PXXX	-X	X	XXX	X	XXXX
<p>Rating:</p> <p>P001 = 1.1VA, models up to 20V are also Class 2 (see Page 9)</p> <p>P002 = 2.4VA, models up to 24V are also Class 2 (see Page 9)</p> <p>P006 = 6VA</p> <p>P012 = 12VA</p> <p>P020 = 20VA</p> <p>P036 = 36VA</p>						
<p>Primary Voltage:</p> <p>-1 = 120V</p> <p>-2 = 120/240V Dual (series / parallel)</p> <p>-3 = 240V</p>						
<p>Optional Internal Protector:</p> <p>- (dash) = No internal protector</p> <p>A through Z = Over-current and/or over-temperature protection (Contact for list of available protectors)</p>						
<p>Secondary Voltage (10V through 120V, in 1V Increments):</p> <p>010 through 120 = Dual Secondary (series / parallel) Number represents the voltage of the series connection. <i>Example: "024" = 12V (parallel) / 24V (series)</i></p> <p>510 through 620 = Center-tapped Secondary Number represents the total voltage plus 500. <i>Example: "524" = 24V with center-tap (12V on each side)</i></p> <p>710 through 820 = Single Secondary Number represents the voltage plus 700. <i>Example: "724" = 24V</i></p>						
<p>Indication of Adjustment in Primary Voltage:</p> <p>Blank = 120V, 120/240V or 240V, as selected above</p> <p>X = 115V instead of 120V and/or 230V instead of 240V</p>						
<p>Frequency:</p> <p>Blank = 50/60Hz</p> <p>-60HZ = Economy 60Hz-only</p>						

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