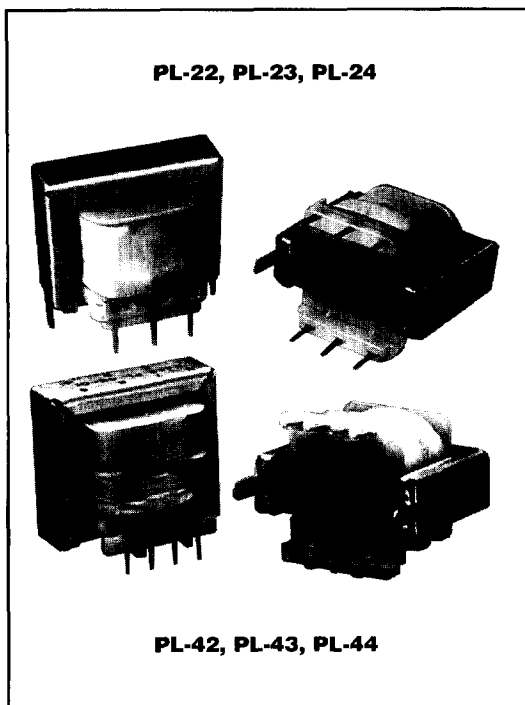


# MODELS PL-22, -23, -24, -42, -43, -44

## Low Power Transformers

### Dual Primary - Dual Secondary

### 115/230 Volts



#### FEATURES

- PC pin mounting
- Provides isolation from power line
- Dual Primary for operation at 115 V or 230 V, 50/60 Hz
- Designed to meet UL requirements
- Dual Secondary for **series connection** obtains twice winding voltage with center tap or for **parallel connection** obtains twice winding current rating
- Modification to these standard items are available as specialty products
- Laminated construction for low-cost industrial applications, including power supplies, controls and instrumentation
- Mounting brackets and bobbin standoff are available
- **PL-22, PL-23, PL-24:** Concentric windings for increased coupling, decreased leakage reactance and improved regulation. Recognized under the Component Program of Underwriters Laboratories, Inc. (U.L. File E71961). For General Purpose Transformers (U.L. Standard 506).
- **PL-42, PL-43, PL-44:** Split-section winding for increased dielectric strength between primary and secondary windings plus reduced interwinding capacitance

#### ELECTRICAL SPECIFICATIONS

**Input Voltage:** 115 V 60 Hz or 230 V 50-60 Hz.

#### Output Power Rating:

PL-22, PL-42 = 1.5 VA.

PL-23, PL-43 = 4.5 VA.

PL-24, PL-44 = 10.0 VA.

**Dielectric Strength:** Between primary windings and secondary windings and core:

PL-22, PL-23, PL-24 = 1500 V.

PL-42, PL-43, PL-44 = 2500 V.

Between secondary windings to core:

All units = 1000 V.

From primary to primary windings:

All units = 500 V.

From secondary to secondary windings:

All Units = 500 V.

#### MECHANICAL SPECIFICATIONS

#### Temperature Class:

PL-22, PL-23, PL-24: Insulation Class A, 105°C.

PL-42, PL-43, PL-44: Insulation Class B, 130°C;

A UL approved Class B Insulation System can be furnished on request.

**Terminals:** Brass, solder coated.

#### Weight: (reference)

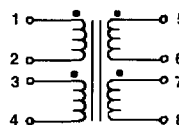
PL-22, PL-42 = 100 grams.

PL-23, PL-43 = 160 grams.

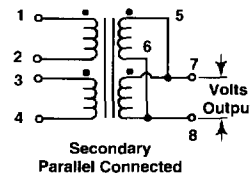
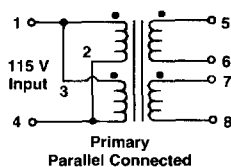
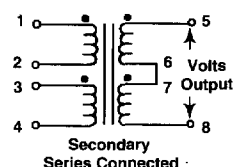
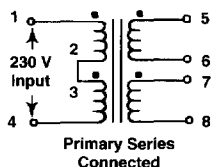
PL-24, PL-44 = 240 grams.

#### SCHEMATICS

#### Basic Style



#### Options



**MODELS PL-22, -23, -24, -42, -43, -44**

OUTPUT VOLTAGE TABLE						
MODEL	CONCENTRIC WINDINGS	SPLIT-SECTION WINDINGS	OUTPUT VOLTAGE		OUTPUT CURRENT (mA)	
			SERIES	PARALLEL	SERIES	PARALLEL
PL-22-01		PL-42-01	8 VCT	4 V	188	376
PL-23-01		PL-43-01			562	1124
PL-24-01		PL-44-01			940	1880
PL-22-02		PL-42-02	10 VCT	5 V	120	240
PL-23-02		PL-43-02			440	880
PL-24-02		PL-44-02			1000	2000
PL-22-03		PL-42-03	12.6 VCT	6.3 V	100	200
PL-23-03		PL-43-03			350	700
PL-24-03		PL-44-03			800	1600
PL-22-04		PL-42-04	15 VCT	7.5 V	100	200
PL-23-04		PL-43-04			300	600
PL-24-04		PL-44-04			500	1000
PL-22-05		PL-42-05	16 VCT	8 V	75	150
PL-23-05		PL-43-05			260	520
PL-24-05		PL-44-05			640	1280
PL-22-06		PL-42-06	20 VCT	10 V	60	120
PL-23-06		PL-43-06			220	440
PL-24-06		PL-44-06			500	1000
PL-22-07		PL-42-07	24 VCT	12 V	50	100
PL-23-07		PL-43-07			180	360
PL-24-07		PL-44-07			450	900
PL-22-08		PL-42-08	30 VCT	15 V	50	100
PL-23-08		PL-43-08			150	300
PL-24-08		PL-44-08			250	500
PL-22-09		PL-42-09	34 VCT	17 V	35	70
PL-23-09		PL-43-09			125	250
PL-24-09		PL-44-09			300	600
PL-22-10		PL-42-10	40 VCT	20 V	30	60
PL-23-10		PL-43-10			110	220
PL-24-10		PL-44-10			250	500
PL-22-11		PL-42-11	54 VCT	27 V	28	56
PL-23-11		PL-43-11			84	168
PL-24-11		PL-44-11			140	280
PL-22-12		PL-42-12	56 VCT	28 V	20	40
PL-23-12		PL-43-12			80	160
PL-24-12		PL-44-12			180	360
PL-22-13		PL-42-13	76 VCT	38 V	20	40
PL-23-13		PL-43-13			60	120
PL-24-13		PL-44-13			100	200
PL-22-14		PL-42-14	88 VCT	44 V	15	30
PL-23-14		PL-43-14			50	100
PL-24-14		PL-44-14			120	240
PL-22-15		PL-42-15	120 VCT	60 V	10	20
PL-23-15		PL-43-15			35	70
PL-24-15		PL-44-15			85	170
PL-22-16		PL-42-16	180 VCT	90 V	6	12
PL-23-16		PL-43-16			24	48
PL-24-16		PL-44-16			55	110
PL-22-17		PL-42-17	230 VCT	115 V	5	10
PL-23-17		PL-43-17			20	40
PL-24-17		PL-44-17			40	80

**DIMENSIONAL CONFIGURATIONS (Reference)**

**Basic Style**

**"A" Type of Mounting Frame**

**"B" Type of Mounting Frame**

[Numbers in brackets indicate millimeters]

MODEL	A	B	C	D	E	F	G	H
PL-22	1.43	1.20	.200	1.19	1.0	.125	1.75	2.12
PL-42	[36.32]	[30.48]	[5.08]	[30.23]	[25.40]	[3.18]	[44.45]	[53.85]
PL-23	1.68	1.38	.250	1.30	1.10	.125	2.0	2.44
PL-43	[42.67]	[35.05]	[6.35]	[33.02]	[27.94]	[3.18]	[50.80]	[61.98]
PL-24	1.93	1.64	.250	1.48	1.30	.188	2.38	2.88
PL-44	[49.02]	[41.66]	[6.35]	[37.59]	[33.02]	[4.78]	[60.45]	[73.15]

**PART MARKING**

- Dale
- Model
- Date code

**HOW TO ORDER**

<b>PL-22</b>	<b>-01</b>	<b>A</b>	<b>B</b>
MODEL	OUTPUT VOLTAGE AND CURRENT	MOUNTING FRAME (if not required, leave blank.)	FOR BOBBIN STANDOFF (if not required, leave blank.)
			.063 [1.60] Bobbin Standoff

Special design not listed, available on request.