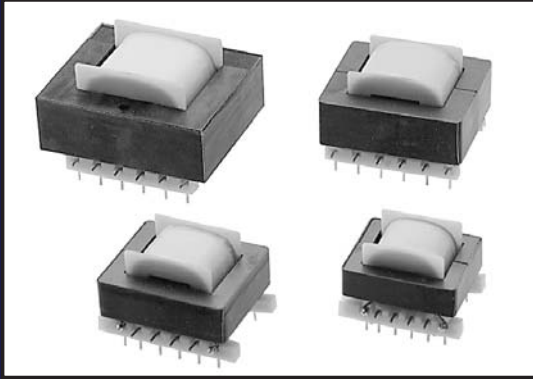


60 Hz TRANSFORMERS

WCM 801 Series



PRODUCT DESCRIPTION

West Coast Magnetics' 801 series 60 Hz transformers are an efficient, effective and safe way to provide isolation and voltage transformation for your 60 Hz application. These 60 Hz transformers are available in one or two section bobbins with up to 2500 Vac isolation between windings. West Coast Magnetics' design engineers and technicians can quickly build and deliver a transformer to your exact specification.

FEATURES - BENEFIT



Power to 25 Watts • Fast prototype turnarounds • Complete designs from West Coast Magnetics

DESIGN CONSTANTS

Size Code	Ae core area (mm ²)	le magnetic path length (mm)	Ve core volume (mm ³)	Wa bobbin winding area (mm ²)	WaAc core area x winding area (mm ⁴)	Bobbin window width (mm)	Bobbin window height (mm)	Mean length per turn (mm)
E 34	84.9	69.6	5907	94.8	8,048	16.5	5.7	73.5
E 41	156.7	77.6	12,165	101.0	15,826	18.1	5.7	85.6
E 47	233.0	89.0	20,700	119.3	27,796	21.1	5.7	99.1
E 56	340.0	107.0	36,400	189.0	64,260	26.2	7.2	117.6

OUTPUT POWER VS FREQUENCY OF OPERATION (VA)

Size Code	VA
E 34	2.5
E 41	6.0
E 47	12.0
E 56	20.0

Notes:

- Final sizing of the transformer will depend on a number of interrelated variables. The data in the above table should be considered a starting point only.

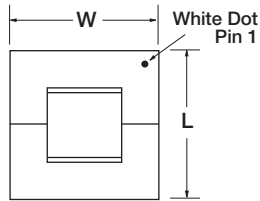


60 Hz TRANSFORMERS

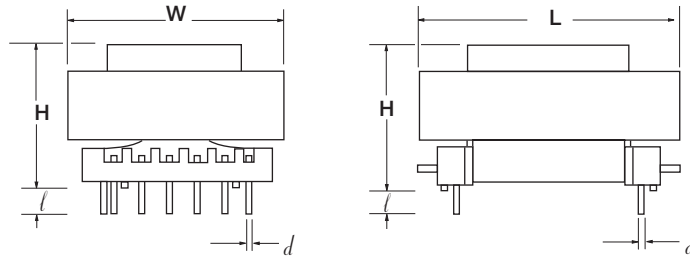
WCM 801 Series

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

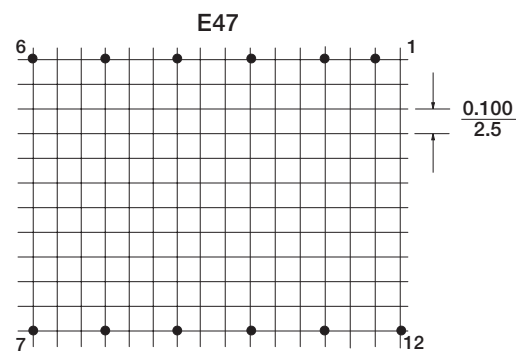
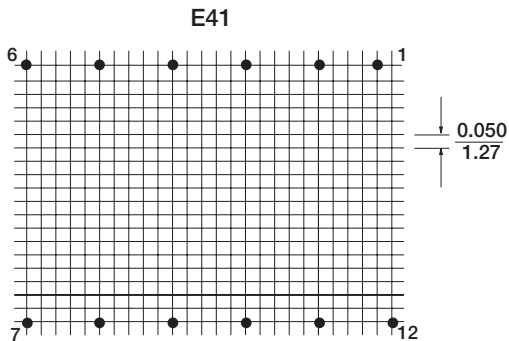
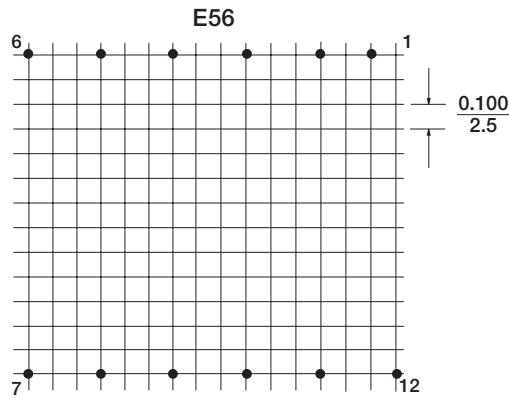
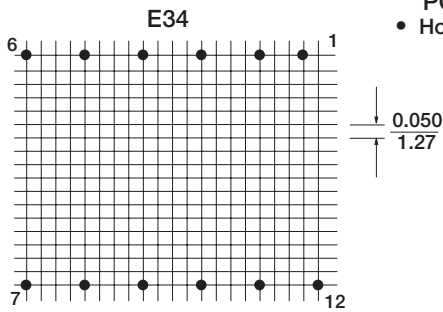
Top View
All Sizes



Side Views
All Sizes



PCB Layouts
• Holes for bobbin



Note: L, W, H are maximum dimensions with mounting hardware.

Note: l is nominal pin length. Allow for $\pm 10\%$ variation in this dimension.

Size Code	L	W	H	l	d^*
E34	$\frac{1.25}{31.8}$	$\frac{1.49}{10.9}$	$\frac{1.05}{26.7}$	$\frac{.125}{3.2}$	$\frac{.025}{.64}$
E41	$\frac{1.40}{35.6}$	$\frac{1.69}{42.9}$	$\frac{1.15}{29.2}$	$\frac{.150}{3.8}$	$\frac{.025}{.64}$
E47	$\frac{1.60}{40.6}$	$\frac{1.90}{48.3}$	$\frac{1.32}{33.5}$	$\frac{.135}{3.4}$	$\frac{.025}{.64}$
E56	$\frac{1.90}{48.3}$	$\frac{2.27}{57.7}$	$\frac{1.58}{40.1}$	$\frac{.165}{4.2}$	$\frac{.025}{.64}$

* square

Note: All materials of construction minimum Class B 130 degrees C rated.

