

403 series

switch mode transformers

PRODUCT DESCRIPTION

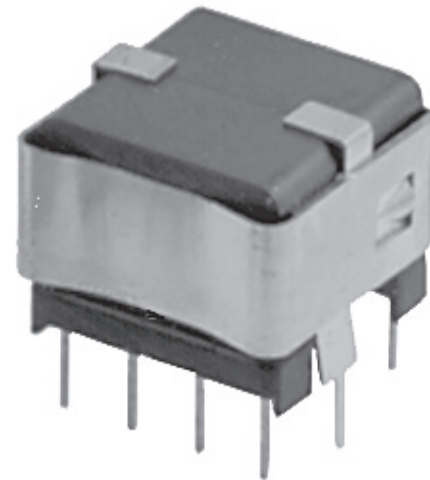
West Coast Magnetics' 403 series transformers are ideal for switch mode power supply applications where very low emitted electromagnetic radiation is a priority. This type of transformer is also used in broadband small signal transmission applications. The cubic shape of the 403 series core and bobbin provides exceptional shielding and facilitates high PCB packing densities.

FEATURES & BENEFITS

Very low EMI – High PCB packing densities – Standard gapped cores from stock – Adaptable to UL, CSA, VDE safety agency requirements – SMD mounting available for small sizes – Design assistance from West Coast Magnetics

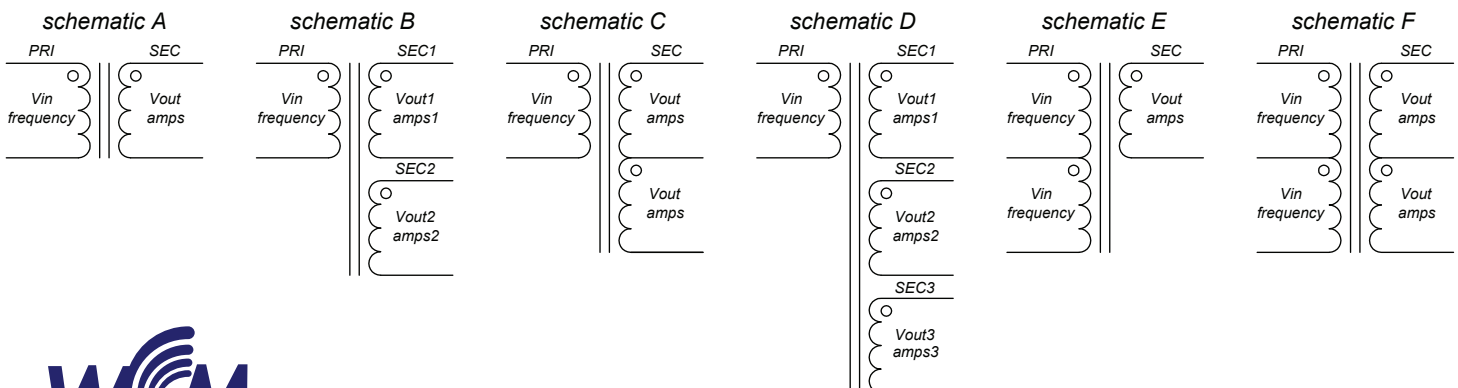
OUTPUT POWER (WATTS) vs FREQUENCY OF OPERATION

Product Code	25 kHz	50 kHz	100 kHz	250 kHz	500 kHz
EP 7	1.0	1.3	1.7	2.7	3.1
EP 10	2.9	3.9	5.1	8.0	9.0
EP 13	5.4	7.3	9.7	23.9	17.2
EP 17	11.6	15.4	20.4	31.9	35.9
EP 20	32.8	43.7	58.8	91.2	103.0



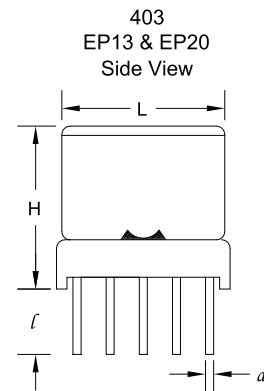
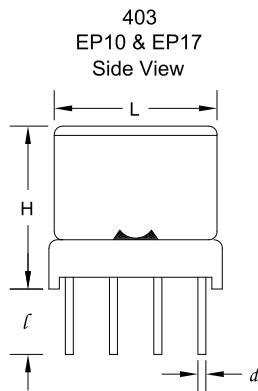
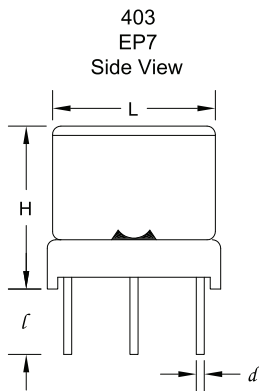
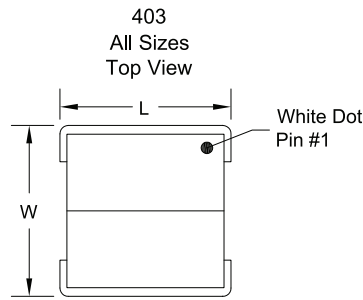
Note: Output power versus frequency data was generated assuming a typical push/pull topology and 40° C transformer temperature rise. This data is typical for most SMPS topologies but is a reference only. Check with West Coast Magnetics for final verification of transformer size.

This custom power transformer will be designed precisely to your requirements. Choose a schematic below and click here to contact us with your specifications.

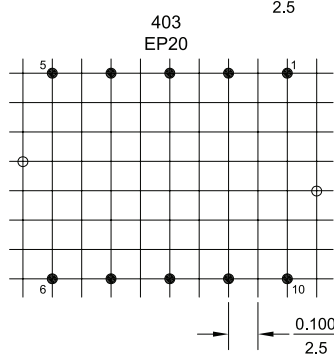
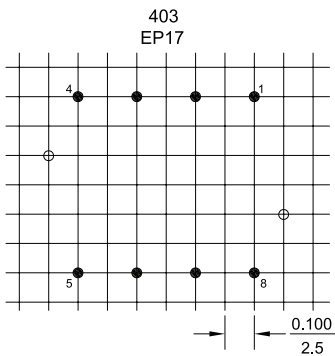
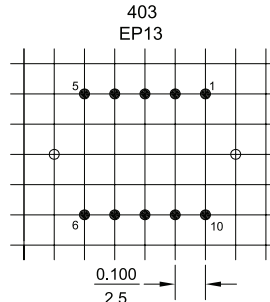
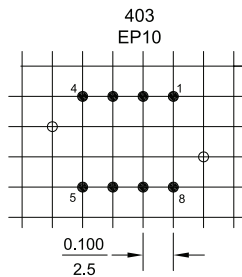
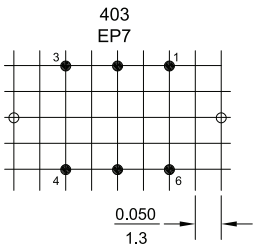


switch mode transformers

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



PCB Layouts
● Holes for bobbin
○ Holes for clip pins



Note: This series can be supplied with or without mounting hardware. Mounting hardware clip pins are rectangular. Consult West Coast Magnetics for dimensions.

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

Note: d is maximum diameter. This dimension may vary by 15%.

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

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

Product Code	L	W	H	l	d
EP 7	$\frac{0.485}{12.3}$	$\frac{0.385}{9.8}$	$\frac{0.413}{10.5}$	$\frac{0.122}{3.1}$	$\frac{0.026}{0.66}$
EP 10	$\frac{0.550}{14.0}$	$\frac{0.510}{13.0}$	$\frac{0.470}{11.9}$	$\frac{0.190}{4.8}$	$\frac{0.026}{0.66}$
EP 13	$\frac{0.625}{15.9}$	$\frac{0.625}{15.9}$	$\frac{0.545}{13.8}$	$\frac{0.210}{5.3}$	$\frac{0.026}{0.66}$
EP 17	$\frac{0.840}{21.3}$	$\frac{0.800}{20.3}$	$\frac{0.640}{16.3}$	$\frac{0.197}{5.0}$	$\frac{0.026}{0.66}$
EP 20	$\frac{1.080}{27.4}$	$\frac{1.000}{25.4}$	$\frac{0.815}{20.7}$	$\frac{0.197}{5.0}$	$\frac{0.026}{0.66}$