

402 series

switch mode transformers

PRODUCT DESCRIPTION

West Coast Magnetics' 402 series high frequency transformers are intended for use in switch mode power supplies including push/pull, flyback, and forward converter circuits. Output power as high as 257 Watts can be achieved in push/pull circuits. All sizes are based on low profile E-core geometry and two sizes are offered in surface mount packaging. West Coast Magnetics stocks core material which will accommodate a range of operating frequencies from 10 kHz to 3 MHz.

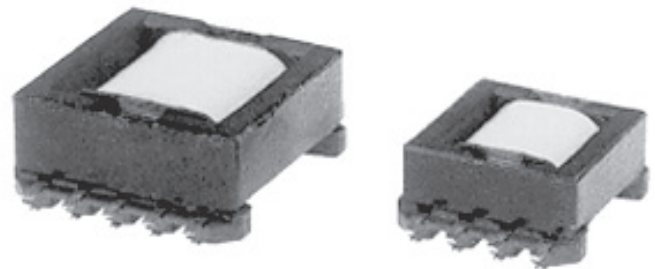
FEATURES & BENEFITS

Low profile, surface mount core geometry – Low loss material – Operating frequency to 3 MHz – Standard gapped cores available from stock – Design assistance from West Coast Magnetics



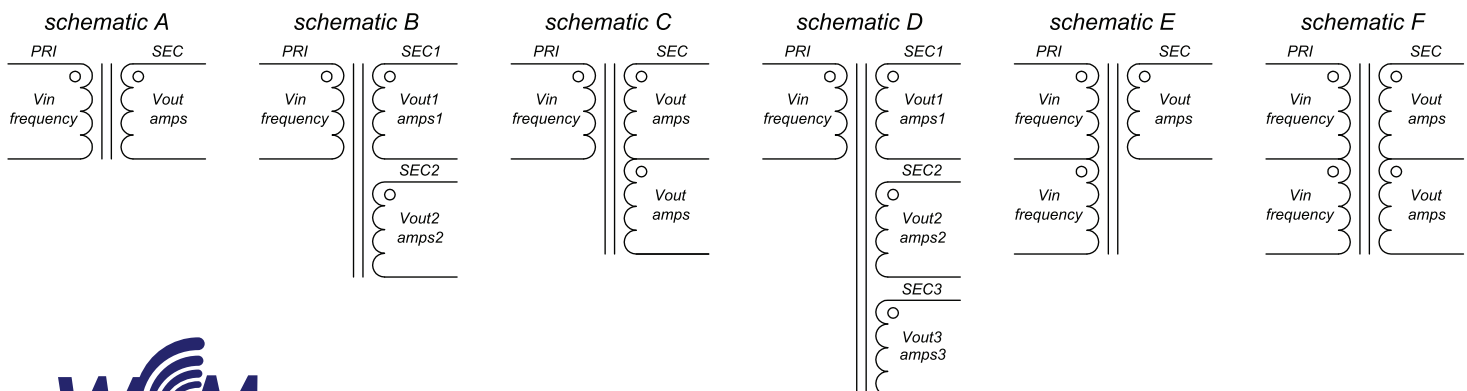
OUTPUT POWER (WATTS) vs FREQUENCY OF OPERATION

Product Code	50 kHz	100 kHz	250 kHz	500 kHz	1000 kHz	2000 kHz	3000 kHz
EFD 15	6.8	9.3	14	16	25	20	17
EFD 20	20.0	27.0	42	47	72	59	49
EFD 25	49.0	67.0	104	117	180	147	121
EFD 30	70.0	96.0	149	169	257	210	173



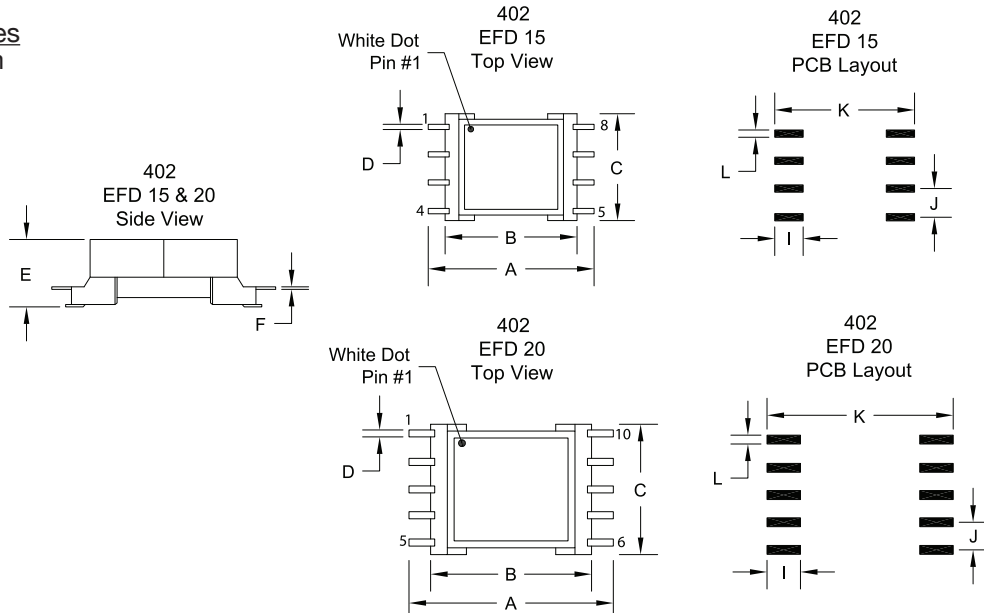
Note: Output power versus frequency data was generated assuming a typical push/pull topology and 40° C transformer temperature rise. This data is typical for most SMPS topologies but is a reference only. Check with West Coast Magnetics for final verification of transformer size.

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

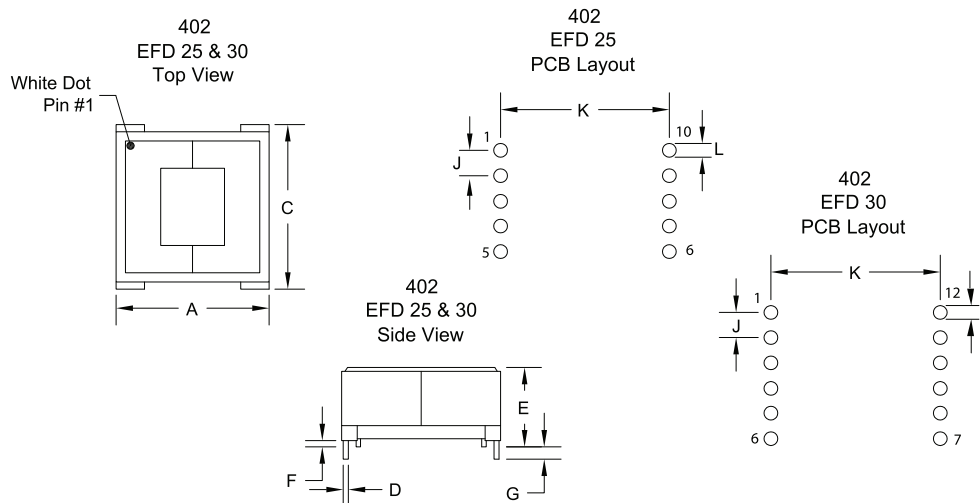


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Dimensions: $\frac{\text{inches}}{\text{mm}}$



Product Code	A	B	C	D	E	F	I	J	K	L
EFD 15	$\frac{0.894}{22.7}$	$\frac{0.736}{18.7}$	$\frac{0.657}{16.7}$	$\frac{0.039}{1.0}$	$\frac{0.315}{8.0}$	$\frac{0.012}{0.3}$	$\frac{0.110}{2.8}$	$\frac{0.150}{3.75}$	$\frac{0.811}{20.6}$	$\frac{0.079}{2.0}$
EFD 20	$\frac{1.091}{27.7}$	$\frac{0.933}{23.7}$	$\frac{0.854}{21.7}$	$\frac{0.039}{1.0}$	$\frac{0.406}{10.3}$	$\frac{0.012}{0.3}$	$\frac{0.110}{2.8}$	$\frac{0.150}{3.75}$	$\frac{1.01}{25.6}$	$\frac{0.079}{2.0}$



Product Code	A	C	D	E	F	G	J	K	L
EFD 25	$\frac{1.024}{26.0}$	$\frac{1.024}{26.0}$	$\frac{0.031}{0.8}$	$\frac{0.511}{13.0}$	$\frac{0.071}{1.8}$	$\frac{0.138}{3.5}$	$\frac{0.197}{5.0}$	$\frac{0.886}{22.5}$	$\frac{0.052}{1.3}$
EFD 30	$\frac{1.220}{31.0}$	$\frac{1.220}{31.0}$	$\frac{0.031}{0.8}$	$\frac{0.511}{13.0}$	$\frac{0.071}{1.8}$	$\frac{0.138}{3.5}$	$\frac{0.197}{5.0}$	$\frac{1.083}{27.5}$	$\frac{0.052}{1.3}$

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