

# 402 series design data

## switch mode transformers

### DESIGN CONSTANTS

Product Code	$A_f$ frequency > 500 kHz a.	$A_f$ frequency $\leq$ 500 kHz a.	$A_f$ single gap	$A_f$ double gap	$A_e$ core area (mm <sup>2</sup> )	$l_e$ magnetic path length (mm)	$V_e$ core volume (mm <sup>3</sup> )	$W_a$ bobbin winding area (mm <sup>2</sup> )	$W_a A_c$ core area x winding area (mm <sup>4</sup> )	Bobbin window width (mm)	Bobbin window height (mm)	Mean length per turn (mm)
EFD 15	400	850	70	135		34.0	510	17.1	257	8.9	1.93	27
EFD 20	650	1200	70	135		47.0	1460	28.1	871	13.4	2.10	38
EFD 25	1000	2000	80	155		57.0	3300	42.5	2465	16.7	2.55	48
EFD 30	1050	2150	80	155		68.0	4700	54.1	3733	20.4	2.65	52

a.  $A_f$  measured for ungapped cores.  $nH/T^2 \pm 25\%$

