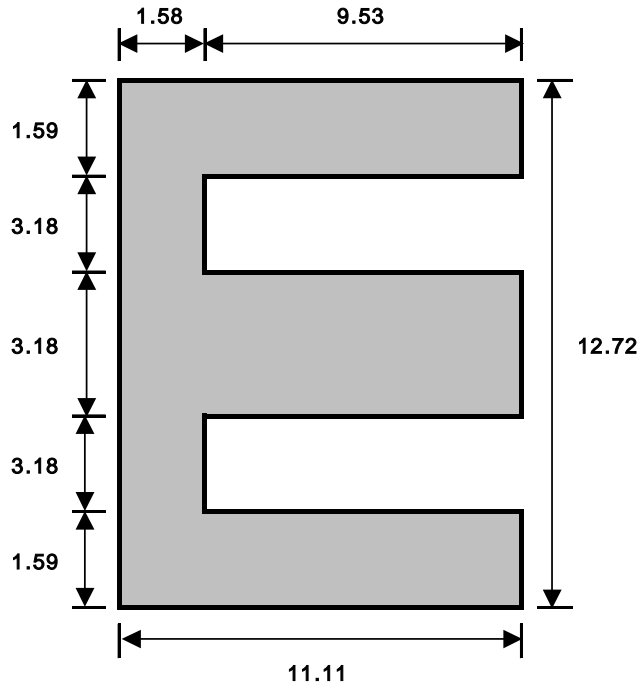




12.7LE

SYEC CORE



TOLERANCE ± 0.08

PROPERTIES OF SQUARE STACK

MAGNETIC DESIGN FORMULAE

$$B_{max} = \frac{3753 \cdot 10^3}{K_1 N} \text{ gauss per Volt at 60Hz}$$

(N is number of turns)

$$H_0 = (0.439 \cdot 10^{-3}) N \text{ Oersted per milliampere}$$

of direct current in winding

$$L = (0.0439 \cdot 10^{-8}) K_1 N^2 \mu \text{ ac Henries}$$

MAGNETIC PATH DIMENSION

$$l = 2.86 \text{ cm}$$

$$A = 0.1 \text{ cm}^2$$

K_1 (STACKING FACTOR)

Thickness	Butt jointed	Interleaved one per layer
0.1	0.90	0.80
0.2	0.90	0.85
0.35	0.95	0.90

MATERIAL TYPE	THICKNESS(mm)	WEIGHT & NUMBERS	
		GRAMS/PCS	PCS/KG
PC (NI 80%)	0.15T	0.1060	9,434
	0.2T	0.1410	7,092
	0.35T	0.2470	4,049
PB (NI 48%)	0.35T	0.2330	4,292