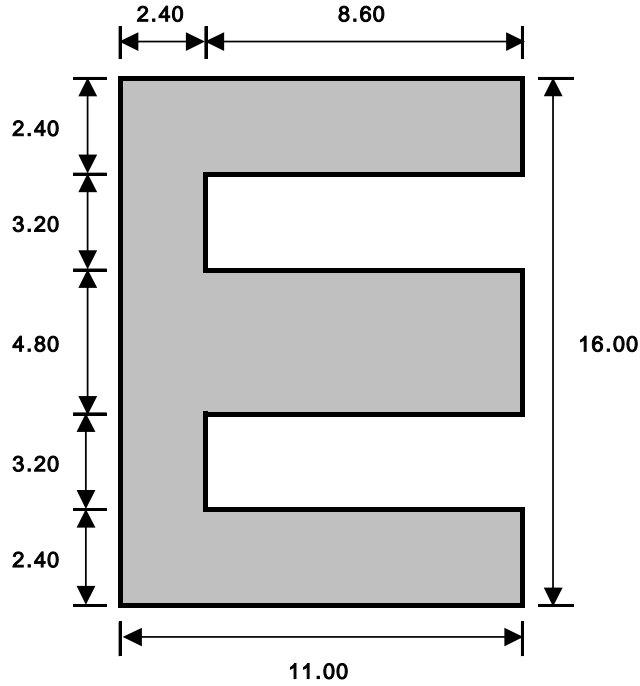




# 16-11E

# SYEC CORE



TOLERANCE  $\pm 0.08$

**PROPERTIES OF SQUARE STACK (10EA)**

**MAGNETIC DESIGN FORMULAE**

$$B_{max} = \frac{2346 \cdot 10^3}{K_1 N} \text{ gauss per Volt at 60Hz}$$

(N is number of turns)

$$H_0 = (0.442 \cdot 10^{-3}) N \text{ Oersted per milliampere}$$

of direct current in winding

$$L = (0.0707 \cdot 10^{-8}) K_1 N^2 \mu \text{ ac Henries}$$

**MAGNETIC PATH DIMENSION**

$$l = 2.84 \text{ cm}$$

$$A = 0.16 \text{ cm}^2$$

**$K_1$  (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%)	0.35T	0.3651	2,739
	0.2T	0.2060	4,854
PB (NI 45%)	0.35T	0.3440	2,907