

Formula for Approx. Calculation  
of Inductors for known Turns or  
Desired Inductance

U = Used Active Turns  
T = Total Available Turns  
X = Desired or Unknown Inductance  
 $X_T$  = Total Available Inductance

X known:  $U = \frac{T (X^{2/3})}{X_T^{2/3}}$   
 X unknown:  $X^{2/3} = \frac{U (X_T^{2/3})}{T}$

T	X	$X_T$	$X^{2/3}$	$T(X^{2/3})$	$/X_T^{2/3}$	= U

T	U	$X_T$	$X_T^{2/3}$	$U(X_T^{2/3})$	$/T=X^{2/3}$	$3/2 = X$

For HP 35 Key 2/3 or 3/2  
 Key ENTER  
 Key X or  $X_T$   
 Key  $X^Y$

For HP 21 Key X or  $X_T$   
 Key ENTER  
 Key 2/3 or 3/2  
 Key BLU  $Y^X$