PushPull Transformer
winding 1.2mH + 1.2mH with center tap

HOT 100VMAX COLD

100VMAX
CN1
DB126V-5.0-2P
DSWB01LHGET
SW2
PGND

INPUTS		OUTPUT
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	L

pickit3_header
MCLR
VC
VSS
PGD
PGC
PushPull ON : RA4 hi, PWM on
PushPull OFF: PWM off, RA4 lo

U1
PIC12F1840-I/SN
RA0/ICSPDAT
RA1/ICSPCLK
RA2
RA3/MCLR#/VPP
RA4
RA5
VDD
VSS

VCC
DSWB01LHGET
SW1
C1 10uF
C2 100nF

U15
SN74LVC2G86DCTR
1A
1B
2Y
GND
VCC
1Y
2B
2A
C38 100nF
C19 10uF

G1
KH-IPEX-K501-29
D1
CUS10S30,H3F
R1 100
C3 100pF

Q1
NCE6008AS
R3 50m
Q2
NCE6008AS

D3
CUS10S30,H3F
R80 100
C187 100pF
G2
KH-IPEX-K501-29

Secondary 1mH
S1
S2
D6 SDM2100S1F-7
D2 SDM2100S1F-7
D4 SDM2100S1F-7
D5 SDM2100S1F-7
L3 68uH
C20 470uF
C18 100nF
R7 10k
R4 2.2k
R5 2k
CN2
DB126V-5.0-2P
+17.5VOUT
TP5
ISOGND

L5
600@100MHz
C5 10uF
U3
LM1117GSF-5.0
VIN
VOUT
GND/ADJ
C4 68uF
ISOGND

TP3

L2
600@100MHz
C6 68uF
C14 100nF
R6 1k
U5
GS8331-TR
R10 10k
C15 100nF
C13 100pF
R9 178k
R11 10k

L1
600@100MHz
U4
AD7740YRMZ-REEL7
BUF
FOUT
VDD
VIN
CLKOUT
CLKIN
GND
REFIN/OUT
C9 12pF
X1
32.768KHz
C10 12pF

FOUT
KH-IPEX-K501-29
U8
CA-IS3721LS
VDDA
VI1
VO2
GNDA
VDDB
VO1
VI2
GNDB
C12 100nF
C11 100nF
C7 68uF
C8 100nF

TP4

VIN
KH-IPEX-K501-29

100VMAX
C25 10uF
C26 10uF
C24 100nF
R2 10
U7
SY8511BADC
BS
GND
FB
LX
IN
EN
R55 10k
L4 68uH
D15
SDM2100S1F-7
C23 10uF
C21 10uF
+7.5V
R8 100k
C27 47pF
R12 8.66k
L6 600@100MHz
C22 68uF
C28 100nF
U6
LM1117GSF-5.0
VIN
VOUT
GND/ADJ
VCC
C17 68uF

PGND
C16 100nF
ISOGND

TITLE: Digital Bonbon Push Pull			REV: 1.0
EasyEDA	Company: yu3ma		Sheet: 1/1
	Date: 2023-12-03	Drawn By: savan	