



C1 - 100nF MLCC / Chip Capacitor  
Q1 - Q17 DTB113Z Digital Transistors  
R1 - R17 100K Ohm 0603 Resistors

Choose gerber carefully

PIC16F737 Microcontroller  
PIC16F737-I/SO SOIC Package  
PIC16F737-I/SS SSOP Package(Slimline) - Normal and Inverted  
PIC16F737-I/SP DIP-28 Through-hole package

TMS2370 Pinout

PIC16F737

1 MCLR#/VPP/RE3  
2 RA0/AN0  
3 RA1/AN1  
4 RA2/AN2/VREF-/CVREF  
5 RA3/AN3/VREF+  
6 RA4/T0CK1/C1OUT  
7 RA5/AN4/LVDIN/SS#/C2OUT  
8 VSS  
9 OSC1/CLK1/RA7  
10 OSC2/CLKO/RA6  
11 RC0/T1OSO/T1CKI  
12 RC1/T1OSI/CCP2  
13 RC2/CCP1  
14 RC3/SCK/SCL  
15 RC4/SDI/SDA  
16 RC5/SDO  
17 RC6/TX/CK  
18 RC7/RX/DT  
19 VSS  
20 VDD  
21 RB1/AN10  
22 RB2/AN8  
23 RB3/CCP2/AN9  
24 RB4/AN11  
25 RB5/AN13/CCP3  
26 RB6/PGC  
27 RB7/PGD  
28

TITLE: TMS 2370 Replacement		REV: 2.1
Company:		Sheet: 1/1
Date: 2024-07-31	Drawn By: Matthew Bostock	