

Bill of Materials		MCP14T0517 Reference Design	
Part Number: EV32R56A Assy Number: 02-01414 PCB Number: 04-12471 Assy Revision: 1 Creation Date: 3/17/2025		 MICROCHIP	
Designator	Description	Manufacturer	Part Number
C1, C2	CAP CER 4.7uF 16V 10% X7R SMD 0805	Murata	GRM21BR71C475KE51L
C3	CAP CER 4.7uF 50V 20% X7R AEC-Q200 SMD 1206	KEMET	C1206X475M5RACAUTO
D1, D2, D5, D6	DIO SCTKY PMEG4005AEAZ 470mV 500mA 40V SMD SOD-323	Nexperia USA Inc.	PMEG4005AEAZ
D3	DIO ZNR PDZ5.1B,115 5.1V 400mW SMD SOD-323	Nexperia USA Inc.	PDZ5.1B,115
D4	DIO ZNR PZU24B3A-QX 25.06V 320mW SOD-323 AEC-Q101	Nexperia USA Inc.	PZU24B3A-QX
J1, J2	CON HDR-2.54 Male 1x3 Gold 6.10MH TH VERT	METZ CONNECT USA Inc.	PR20203VBNN
Q1	TRANS BJT NPN MMST3904-7-F 40V 200mA 200mW SOT-323	Diodes Incorporated	MMST3904-7-F
R1	RES TKF 1k 1% 1/8W SMD 0805	Vishay	CRCW08051K00FKEA
R2	RES TKF 2.7k 1% 1/4W SMD 1206 AEC-Q200	Panasonic Electronic Components	ERJ-8ENF2701V
T1	TRANS SMPS 1:2.88 5V 1A 86uH SMD AEC-Q200	Wuerth Elektronik	750316819
Microchip Parts			
U1	MCHP ANALOG TRANSF DRIVER Push-Pull 450kHz MCP14T0517B 6L SOT-23	Microchip Technology	MCP14T0517B-E/CH