



Bill of Materials

TI DESIGNS

TIPD195: 3 Terminal PLC Reference Design

Quantity	Designator	Value	Description	Manufacturer	Manufacturer Part Number	DigiKeyPartNumber
3	C1, C2, C3	10uF	CAP CER 10UF 35V 10% X6S 0805	MuRata	GRM21BC8YA106KE11L	490-10504-1-ND
1	C4	0.47uF	CAP, CERM, 0.47 μ F, 20 V, +/- 10%, X5R, 0805	Taiyo Yuden	TMK212BJ474KD-T	587-1290-1-ND
3	C5, C6, C7	0.1uF	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0805	AVX	08055C104KAT2A	478-1395-1-ND
1	CO	3300pF	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0805	Yageo America	CC0805KRX7R9BB332	311-1131-1-ND
1	J1	N/A	Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	On-Shore Technology	ED555/3DS	ED1515-ND
1	R1	100k	RES SMD 100K OHM 0.1% 1/10W 0805	TT Electronics/Welwyn	PCF0805-12-100KBT1	985-1404-1-ND
1	R2	4.12k	RES SMD 4.12K OHM 0.1% 1/8W 0805	Panasonic Electronic Components	ERA-6AEB4121V	P4.12KDACT-ND
1	R3	20	RES SMD 20 OHM 0.1% 1/10W 0805	TE Connectivity AMP Connectors	RN73C2A20RBD	A119985CT-ND
1	RG	10.7k	RES SMD 10.7K OHM 0.1% 1/8W 0805	Yageo	RT0805BRD0710K7L	YAG1762CT-ND
1	RL	10.0k	RES, 10.0 k, 1%, 0.125 W, 0805	Vishay-Dale	CRCW080510K0FKEA	541-10.0KCCT-ND
1	RO	100	RES, 100, 1%, 0.125 W, 0805	Vishay-Dale	CRCW0805100RFKEA	541-100CCT-ND
1	V+	Red	Test Point, TH, Compact, Red	Keystone	5005	5005K-ND
1	V-	Yellow	Test Point, Compact, Yellow, TH	Keystone	5009	5009K-ND
1	5V	Orange	Test Point, Compact, Orange, TH	Keystone	5008	5008K-ND
4	GND	Black	Test Point, TH, Compact, Black	Keystone	5006	5006K-ND
3	Vref, Vout, IN-	Blue	Test Point, Compact, Blue, TH	Keystone	5122	5122K-ND
1	U1	N/A	IC VREF SERIES 2.5V SOT23-6	Texas Instruments	REF3225AIDBVR	296-39162-1-ND
1	U2	N/A	INA188 Precision, Zero-Drift, Rail-to-Rail Out, High Voltage INA	Texas Instruments	INA188	INA188
4	N/A	N/A	STANDOFF HEX 4-40THR ALUM 1L"	Keystone	2205	2205K-ND
4	N/A	N/A	MACHINE SCREW PAN PHILLIPS 4-40	B&F Fastener Supply	PMSSS 440 0025 PH	H703-ND