Bill of Materials

TI DESIGNS

TIPD188: AC Bridge Excitation Technique for Bridge Stabilization

Quantity	Value	Designator	Description	Manufacturer	PartNumber	Supplier 1	Supplier Part Number 1
10		+5V, BR_O+, BR_O-, BR_R+, BR_R-, EXC_GPIO_N, EXC_GPIO_P, GND1, GND2, GND3	TEST POINT, MINIATURE, SMT	Keystone Electronics	5015	Digi-Key	5015KCT-ND
1	4700pF	C1	CAP, CERM, 4700 pF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H472KA01D	Digi-Key	490-1506-1-ND
6	1µF	C2, C5, C7, C8, C9, C10	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	MuRata	GRM185R61C105KE44D	Digi-Key	490-3894-1-ND
2	0.1µF	C3, C6	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C104KA01D	Digi-Key	490-1532-1-ND
2	100n	C4, C11	CAP, CERM X2Y, 100 nF, 25V, X7R, +/-20%, 0805	Johanson Dielectrics Inc	250X15W104MV4E	Digi-Key	709-1330-1-ND
1	10µF	C12	CAP, CERM, 10 uF, 16V, X7R +/-20%, 1206	TDK	C3216X7R1C106M160AC	Digi-Key	445-1601-1-ND
1	0.01uF	C13	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E103KA01D	Digi-Key	490-1520-1-ND
1	10uF	C14	CAP, CERM, 10 uF, 16V, X7R +/-20%, 1206	TDK	C3216X7R1C106M	Digi-Key	445-1601-1-ND
1	6.2V	D1	DIODE, ZENER, 6.2V, 500mW, SOD-123	Diodes Inc	DDZ6V2B-7	Digi-Key	DDZ6V2BDICT-ND
2		J1, J2	Connector, Receptacle, 100mil, 10x2, Gold plated, SMD	Samtec	SSW-110-22-F-D-VS-K	Digi-Key	SSW-110-22-F-D-VS-K-ND
5	100k	R1, R2, R26, R27, R28	RES, 100k Ohm, 5%, 1/10W, 0603	Panasonic	ERJ-3GEYJ104V	Digi-Key	P100KGCT-ND
4	350	R4, R5, R14, R15	RES, 350 Ohm, 0.25%, 0.3W, 1206	Vishay	804-1206	Digi-Key	804-1206-ND
2	87.325k	R6, R13	RES, 87.325k Ohm, 0.01%, 0.75W, 2512	Vishay	804-2512	Digi-Key	804-2512-ND
2	47	R8, R10	RES, 47 Ohm, 1%, 1/10W, 0603	Panasonic	ERJ-3EKF47R0V	Digi-Key	P47.0HCT-ND
6	47	R9, R12, R16, R18, R19, R20	RES, 47 Ohm, 1%, 1/10W, 0603	Panasonic	ERJ-3EKF47R0V	Digi-Key	P47.0HCT-ND
4	0	R21, R22, R25, R24	RES, 0 Ohm, 5%, 0.1W, 0603	Rohm	MCR03EZPJ000	Digi-Key	RHM0.0GCT-ND
2		S1, S4	Switch, Toggle, SPST, 1Pos, TH	E-Switch	200USP9T1A1M2RE	Digi-Key	EG4914-ND
1		U1	IC, 32-bit, 38kSPS ADC	Texas Instruments	ADS1263IPW	Texas Instruments	ADS1263IPW
2		U2, U3	IC, Single-Channel 10 Ohms SPDT Analog Switch	Texas Instruments	TS5A21366RSER	Texas Instruments	TS5A21366RSER

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