

Bipolar_transistor_tester_1.0 Rev 1.0

Reference	Quantity	Value	Footprint
C10 C11 C12 C13 C14 C15 C16	7	220uF 63V	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm
C19	1	20p	Capacitor_SMD:C_0805_2012Metric
C1 C2 C3 C4 C5 C6 C9 C17 C18 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C35 C36	25	100n	Capacitor_SMD:C_0805_2012Metric
C7 C8 C34	3	1u	Capacitor_SMD:C_0805_2012Metric
D1 D2 D8 D9	4	1N4740A	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D3 D4 D7 D10 D11	5	1N4731A	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D5 D6 D12 D13	4	1N4744A	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
H1 H2 H3 H4 H5 H6	6	MountingHole	MountingHole:MountingHole_3.2mm_M3
IC1 IC2 IC3 IC4 IC5	5	OPA454	Package_SO:SOIC-8-1EP_3.9x4.9mm_P1.27mm_EP2.29x3mm
J1	1	KF2510_7pin	Connector_KF2510:KF2510_7pin
J12	1	KF2510_3pin	Connector_KF2510:KF2510_3pin
J15 J16 J19 J20	4	KF2510_5pin	Connector_KF2510:KF2510_5pin
J17 J18 J23 J24	4	KF2510_2pin	Connector_KF2510:KF2510_2pin
J2 J13 J14 J21	4	KF2510_6pin	Connector_KF2510:KF2510_6pin
J22	1	KF2510_4pin	Connector_KF2510:KF2510_4pin
J3 J4 J5 J6 J7 J8 J9 J10 J11 J25 J26 J27 J28 J29	14	DJ621-6.3	Connector:Knife_Terminal_6.3mm_P5.00mm_Vertical
PS1	1	TMV1215D	Converter_DCDC:Converter_DCDC_XP_POWER-IH-xxxxSH_THT
Q1 Q5	2	AO3400A	Package_TO_SOT_SMD:SOT-23
Q2 Q6	2	AO3401A	Package_TO_SOT_SMD:SOT-23
Q3 Q7	2	IRFR9024	Package_TO_SOT_SMD:TO-252-2
Q4 Q8	2	IRF640	Package_TO_SOT_SMD:TO-252-2
R1 R2 R4 R7 R8 R9 R10 R15 R16 R21 R22 R25 R26 R27 R28 R30 R32 R33 R34 R36 R39 R40 R41 R44 R45 R48 R50 R52 R54 R56 R57 R58 R61 R65 R66 R67 R68 R72 R73 R74 R75 R80 R81 R86 R87 R90 R91 R92 R94 R96 R97 R98 R100 R101	53	1k 1%	Resistor_SMD:R_0805_2012Metric
R11 R12 R76 R77	4	51k	Resistor_SMD:R_0805_2012Metric
R13 R14	2	2 1% 0.5W	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P12.70mm_Horizontal
R17 R18 R82 R83	4	2.2k	Resistor_SMD:R_0805_2012Metric
R19 R20	2	200 1%	Resistor_SMD:R_0805_2012Metric
R23 R24	2	10k 1%	Resistor_SMD:R_0805_2012Metric
R29	1	0,1 1% 0.5W	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P12.70mm_Horizontal
R3 R64 R69	3	100k	Resistor_SMD:R_0805_2012Metric
R31 R78 R79	3	10 1% 0.5W	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P12.70mm_Horizontal
R35 R95	2	100k 1%	Resistor_SMD:R_0805_2012Metric
R37	1	2k 1%	Resistor_SMD:R_0805_2012Metric
R38 R43 R49 R102	4	100	Resistor_SMD:R_0805_2012Metric
R42	1	100M 1%	Resistor_SMD:R_0805_2012Metric
R46 R62 R63	3	1M 1%	Resistor_SMD:R_0805_2012Metric
R47	1	200k 1%	Resistor_SMD:R_0805_2012Metric
R5 R6 R70 R71	4	270	Resistor_SMD:R_0805_2012Metric
R51	1	1 1%	Resistor_SMD:R_0805_2012Metric
R53	1	10 1%	Resistor_SMD:R_0805_2012Metric
R55	1	100 1%	Resistor_SMD:R_0805_2012Metric
R59 R60	2	200k	Resistor_SMD:R_0805_2012Metric
R84 R85	2	20k 1%	Resistor_SMD:R_0805_2012Metric
R88 R89	2	20M 1%	Resistor_SMD:R_0805_2012Metric
R93	1	10M 1%	Resistor_SMD:R_0805_2012Metric
R99	1	5 1% 0.5W	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P12.70mm_Horizontal
RV1	1	PV32H103	Potentiometer_THT:Potentiometer_Bourns_3339H_Vertical
RV2	1	PV32H203	Potentiometer_THT:Potentiometer_Bourns_3339H_Vertical
U1 U11 U12 U22 U31 U34	6	CPC1977	OptoDevice:i4-PAC
U17 U48	2	INA118	Package_DIP:DIP-8_W7.62mm
U18	1	ISO124P	Package_DIP:DIP-8-16_W7.62mm
U2 U4 U5 U6 U7 U8 U9 U10 U13 U14 U15 U16 U19 U20 U24 U26 U27 U28 U29 U30 U36 U37 U38 U39 U40 U41 U42	27	PVN012	Package_DIP:DIP-6_W7.62mm
U21	1	AD549	Package_TO_SOT_THT:TO-99-8
U23 U32 U33 U43 U44 U45 U46 U47	8	PVG612	Package_DIP:DIP-6_W7.62mm
U25	1	OP07	Package_DIP:DIP-8_W7.62mm
U3 U35	2	AD822	Package_DIP:DIP-8_W7.62mm