

Cleverscope Test Ruler

Part 940101080 Rev 1.0 9 Nov 14



plug & play instruments
oscilloscopes

Part	Description	Value	Designator	Footprint	Quantity
TPS71701	Reg LDO 6.5Vin 150mA ADJ High PSRR 30uV noise TPS71701DCK	TPS71701	U2, U5	SC70-5	2
TPS54233D	Reg Buck 3.5-28Vin 2A 300kHz	TPS54233	U4	SO8-EP	1
TP GRAB	Test Point Via 2/2.5mm fits 2mm banana	TP GRAB	1nF, 1uH, 10pF, 10uF, 10uH, 100nF, 470uF, AMP OUT, CH A, CHA, CHA2, CHA3, CHB, CHB2, COPEN, FLT1, FLT2, GATE, IN1, IN2, IN3, IN4, ISENSE, MIC, MISO, MOSI, NSS, PULSE, PWM1, PWM2, R-2R, RCAL, RUNT, RX, SCK, SCL, SDA, SIG, TX	TP VIA 2/2.5mm	39
TP BANANA 4mm	Test Point Via 4/4.5mm fits 4mm banana	TP BANANA 4mm	+5V, -5V, 5V, AMP IN, DC IN, GEN-GND, GEN-SIG, GND, GND1, GND2, GND3, GND4, GND5, GND6, GND7, GND8, GND9, GND10, GND11, GND12, GND13, GND14, GND15, GND16, GND17, GND18, GND19, GND20, GND21, GND22, GND23, GND24, GND25, GND26, GND27, GND28, GND29, GND30, GND31, GND32, GND33, GND34, GND35, GND36, GND37, GND38, GND39, GND40, GND41, GND42, GND43, GND44, GND45, GND46, GND47, GND48, GND49, GND50, GND51, GND52, GND53, GND54, GND55, GND56, GND57, GND58, GND59, GND60, GND61, GND62, GND63, GND64, GND65, GND66, GND67, GND68, GND69, GND70, GND71, GND72, GND73, GND74, GND75, GND76, GND77, GND78, GND79, GND80, GND81, GND82, GND83, GND84, GND85, GND86, GND87, GND88, GND89, GND90, GND91, GND92, GND93, GND94, GND95, GND96, GND97, GND98, GND99, GND100	TP VIA 4/4.5mm	43
TLV271CW5	Op-Amp, Rail to Rail out, 2MHz, 2V/us, 550uA, Vs = 2.7-16V, Vio= 5mV	TLV271CW5	U6	SOT23-5	1
STM8L151G3U6	Micro 8bit 8Kf 1KR 1.8-3.6V	STM8L151G3U6	U1	UFQFPN28	1
SRF1280-220M	Transformer 1:1 22uH 3.78Asat 96mOhm Shielded	SRF1280-220M	LS1, LS2	TRANS 12x12	2
SPU0410HR5H-PB	Microphone MEMS Analog -42dB Omnidirectional	SPU0410HR5H-PB	U7	MIC SMD 4	1
R 1k8 0603	R 1k8 0603	1k8	R81	SM0603 Big Pads	1
R 22k 0603	R 22k 0603	22k	R83	SM0603 Big Pads	1
R 68k 0603	R 68k 0603	68k	R82	SM0603 Big Pads	1
R 330R 0603	Res 330R 0603 1% 50V 0.100W	330R	R1, R2, R3, R4, R10, R11, R13, R15, R17, R21, R23, R28, R29, R30, R31, R33, R39, R40, R41, R42, R43, R58, R76	SM0603 Big Pads	23
R 330k 0603	Res 330k 0603 1% 75V 0.100W	330K	R16, R59, R79	SM0603 Big Pads	3
R 100R 1210	Res 100R 1210 1% 200V 0.50W	100R	R69, R70, R71, R72, R73	SM1210	5
R 100R 0603	Res 100R 0603 1% 50V 0.100W	100R	R67, R68, R74, R75, R84, R46, R48, R49, R50, R51, R52, R53, R54, R55, R56, R63, R66	SM0603 Big Pads	17
R 10R 0603	Res 10R 0603 1% 50V 0.100W	10R	R47	SM0603 Big Pads	1
R 10k 0603	Res 10k 0603 1% 75V 0.100W	10k	R5, R6, R24, R25, R38, R77, R78	SM0603 Big Pads	7
R 1M 0603	Res 1M 0603 1% 75V 0.100W	1M	R9, R57	SM0603 Big Pads	2
R 1k 0603	Res 1k 0603 1% 75V 0.100W	1K	R7, R8, R18, R19, R20, R22, R26, R27, R32, R34, R35, R36, R37, R44, R45, R61, R62, R64, R65	SM0603 Big Pads	19
R 0R1 0612	Res 0R1 0612 wide 1% 1.00W	0R1	R80	SM0612 wide	1
PTS645SL50SMTR L	Switch Push Button 6x6mm SMD 5mm high	PB	SW1, SW2	SW6X6MM	2
PMEG3050EP	Diode Schottky 5A 30V Vf = 315mV	5A 30V	D1, D2, D3, D4, D5	SMA_SOD-128	5
PJ-102B	Con DC 2.5mm ID 5.5mm OD 2.5A	DC 5.5/2.5mm	J4	DC Socket 2.5 mm	1
LTST-C191KGKT	LED 0603 Green	0603 Green	LED1, LED2, LED3, LED4	LED 0603	4
LQM18FN1R0M00D	Ind 1uH 20% 150mA 200mOhm 0603 120MHz SRF	1uH	L3	SM0603 big pads	1
LQM18FN100M00D	Ind 10uH 20% 50mA 900mOhm 0603 30MHz SRF 40Q	10uH	L2	SM0603 big pads	1
J_MINI_DIN_8	Socket Mini Din 8-8	Mini Din 8	J1	MIN DIN 8	1
FIDUCIAL	Fiducial 1mm dia	FIDUCIAL	FID1, FID2	FID_1MM	2
DMN6040SSS	MOSFET N-ch 40mOhm@Vgs=10V 60Vds 5.5A SO8	DMN6040 N-ch 40mOhm 60V	T1	SO-8	1
DAC081S101CIMK	DAC 8 bit SPI	DAC081S101CIMK	U3	SOT23-6	1
C 1n5 0603	C 1n5 0603	1n5	C34	SM0603 Big Pads	1
C 150p 0603	C 150p 0603	150p	C36	SM0603 Big Pads	1
C 15n 0603	C 15n 0603	15nF	C35	SM0603 Big Pads	1
C NP 0603	Cap 0603 Not Populated	NP	C10, C16, C37	SM0603 Big Pads	4
C 470u 25V ALU	Cap 470uF Alu Electro 25V 60mOhm 1.19Arms 10mm dia 10.2mm h	470uF	C13	Cap_Electro_SMD_10	1
C 10p 0603 C0G 50V	Cap 10pF 0603 C0G 5% 50V	10pF	C14	SM0603 Big Pads	1
C 100p 0603 C0G 50V	Cap 100pF 0603 C0G 5% 50V	100pF	C3	SM0603 Big Pads	1
C 100n 0603 X7R 25V	Cap 100nF 0603 X7R 25V 10%, Cap 0603 Not Populated Big Pads	100nF	C2, C4, C5, C6, C7, C8, C12, C17, C18, C26	SM0603 Big Pads	10
C 10u 1210 X5R 50V	Cap 10uF 1210 X5R 50V 20%	10uF	C20, C21, C22, C25, C28, C29, C30, C33	SM1210	8
C 10u 0805 X5R 10V	Cap 10uF 0805 X5R 10V 10%	10uF	C1, C9, C15	SM0805 Big Pads	3
C 1n 0603 C0G 50V	Cap 1nF 0603 C0G 5% 50V	1nF	C11	SM0603 Big Pads	1
10118194-0001LF	Con USB micro B Receptacle SMT RA	10118194-0001LF	J3	USB Micro B	1
68002-404HLF	Con Header 4 pin 2.54mm pitch vertical	Header	J2	HDR1X4	1