

Tabelle1

msDistri – microscope distributor

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number	description	footprint	value	max. tolerance	symbols	manufacturer	manufacturer's part number	DigiKey's part number	other vendor, part number
1	printed circuit board	-	-	-	-	custom	-	-	-
1	solder pads	2pol	-	-	CON1	-	-	-	-
8	solder pad	1pol	-	-	CON4-CON11	-	-	-	-
1	connector (header)	2x5 pin 2.54mm	-	-	CON3	Assmann	AWHW10G	HRP10H-ND	-
1	ethernet connector with transformer	RJ45	LF1S022	-	CON2	Bothhand	LFS1S022	-	digitale-elektronik.de, LF1S022
3	hex switch	special	KDR-16	-	S1-S3	ele dis	KDR-16	-	Reichelt, KDR 16
1	resistor	SMD 0805	220E, >= 125mW	5%	R4	any	-	e.g. P220ATR-ND	-
8	resistor	SMD 0805	470E, >= 125mW	5%	R8-R15	any	-	e.g. P470ATR-ND	-
4	resistor	SMD 0805	1.5kE, >= 125mW	5%	R2, R5-R7	any	-	e.g. P1.5KATR-ND	-
1	resistor	SMD 0805	10kE, >= 125mW	5%	R1	any	-	e.g. P10KART-ND	-
1	resistor	SMD 0805	27kE, >= 125mW	5%	R3	any	-	e.g. P27KATR-ND	-
2	ceramic capacitor	SMD 0805	22pF, >= 10V	10%	C4-C5	any	-	e.g. P4004A-ND	-
2	ceramic capacitor	SMD 0805	33pF, >= 10V	10%	C8-C9	any	-	e.g. P4006A-ND	-
4	ceramic capacitor	SMD 0805	10nF, >= 25V	20%	C10-C13	any	-	e.g. PCC1991TR-ND	-
4	ceramic capacitor	SMD 0805	100nF, >= 25V	-20%/+80%	C2-C3, C6-C7	any	-	e.g. PCC1853TR-ND	-
1	ceramic capacitor	SMD 0805	4.7uF, >= 10V	-20%/+80%	C1	e.g. Panasonic ECG	e.g. ECJ-2YF1A475Z	e.g. PCC1842TR-ND	-
1	crystal	SMD HC49/US	16MHz	100ppm	X1	Citizen	HCM49 16.000MABJ-UT	300-8555-2-ND	-
1	crystal	SMD HC49/US	20MHz	100ppm	X2	Citizen	HCM49 20.000MABJ-UT	300-8563-2-ND	-
1	diode	MELF	1N4001	-	D1	e.g. NXP	PRLL4001	568-1178-2-ND	-
1	schottky diode	SOT-23	BAR43	-	D2	e.g. Fairchild	BAR43	BAR43-ND	-
1	microprocessor	TQFP64	ATMEGA128	mind. 16MHz	IC1	Atmel	ATMEGA128-16AU	ATMEGA128-16AU-ND	-
1	ethernet controller	PQFP100	RTL8019AS	-	IC2	Realtek	RTL8019AS	-	digitale-elektronik.de, RTL8019A
2	green low current LED	SMD 0603	2mA, green	-	LED1-LED2	Osram Opto	LG L29K-F2J1-24	475-1193-1-ND	-
2	yellow low current LED	SMD 0603	2mA, yellow	-	LED3-LED4	Osram Opto	LY L29K-H1K2-26	475-1196-1-ND	-