

Designator	Description	Comment	Tolerance	Footprint	Op. temp. range	Voltage rating	Power rating	Quantity	Elfa	Farnell	Manufacturer	Mfg. part num.
AMP1OUT, AMP2OUT, AMP3OUT	Header, 3-Pin	Header 3		HDR1X3		100 VDC		3	43-716-13		Tyco Electronics	0-0826629-3
C101, C102, C107, C108, C115, C208, C210	Capacitor X7R	10uF	10 %	3225[1210]	-55 to 125 deg. C	25 VDC		7	65-721-15		Murata	GRM32DR71E106KA12L
C103, C104, C105, C106, C110, C119	Capacitor X7R	100nF	10 %	1608[0603]	-55 to 125 deg. C	50 VDC		6	65-200-01		Murata	GRM188R71H104KA93D
C109, C113, C114, C116, C201, C202, C204, C205, C206, C207, C209, C211	Capacitor X7R	10nF	10 %	1608[0603]	-55 to 125 deg. C	50 VDC		12	65-722-81		Epcos	B37931-K5103-K60
C111, C112	Capacitor C0G	22pF	10 %	1608[0603]	-55 to 125 deg. C	50 VDC		2	65-722-83		Epcos	B37930-K5220-J60
C117, C118	Polarized Capacitor Tantalum	330uF	20 %	Sanyo 10TPE330M	-55 to 105 deg. C	10 VDC		2	67-237-61		Sanyo	10TPE330M
C203	Capacitor C0G	6.8pF	5 %	1608[0603]	-55 to 125 deg. C	100 VDC		1	65-400-74		Murata	GQM1885C2A6R8DB01D
CMPOUT	Header, 2-Pin	Header 2		HDR1X2		100 VDC		1	43-716-05		Tyco Electronics	0-0826629-2
D101, D102	Blue LED	Red LED		1608[0603]	-40 to 85 deg. C			2	75-312-39		Everlight Electronics	19-21SURC/S530-A2/TR8
D103, D104	Blue LED	Green LED		1608[0603]	-40 to 85 deg. C			2	75-312-47		Everlight Electronics	19-21SYGC/S530-E1/TR8
D105	TVS Diode	SM15T6V8A		SMC_SM15	-65 to 150 deg. C		1500 W	1	70-409-00		ST Microelectronics	SM15T6V8A
D106	Schottky Diode	BAT54		SOT-23	-65 to 125 deg. C			1	70-305-96		NXP	BAT54C
D201	PIN Photodiode	S1336		PIN Photodiode Eval	-20 to 60 deg. C			1	75-206-87		Hamamatsu	S1336
J101	USB Type B Socket	USB Type B		USB Type B	-40 to 105 deg. C			1		1642035	Wuerth Elektronik	61400416121
J102	Cortex-M3 JTAG connector	JTAG		Cortex-M JTAG connector				1	43-568-57		Tyco Electronics	1-1241050-0
L101, L102	Ferrite	BLM18HE152SN1D		1608[0603]	-55 to 85 deg. C			2	65-614-76		Murata	BLM18HE152SN1D
L103	Common Mode Choke, 6.5 mH, 0.4 A, 80 VDC	Common Mode Choke		Common Mode Choke	-40 to 125 deg. C	80 VDC		1	58-114-76		Würth Elektronik	744229
L104	Ferrite inductor	1000uH	5 %	Fastron CCSH-102J	-55 to 125 deg. C			1	58-114-47		Fastron	CCSH-102J
R101, R202	Resistor	1M	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	2	60-597-77		Vishay	D11/CRCW0603
R102	Resistor	1k5	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	1	60-597-09		Vishay	D11/CRCW0603
R103, R105, R106, R107, R114, R116, R118, R207	Resistor	10k	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	8	60-597-29		Vishay	D11/CRCW0603
R104	Resistor	390R	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	1	60-596-95		Vishay	D11/CRCW0603
R108, R109, R110, R111	Resistor	150R	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	4	60-596-85		Vishay	D11/CRCW0603
R112	PTC Fuse	1206L025YR		3216[1206]	-40 to 85 deg. C	16 VDC		1		1596990	Littlefuse	1206L025YR
R113	VDR	CT1206M6G		3216[1206]	-55 to 125 deg. C			1	60-301-14		Epcos	B72520T0060M062
R115, R117, R119	Resistor	20k	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	3	60-597-36		Vishay	D11/CRCW0603
R201	Resistor	5M1	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	1	60-597-94		Vishay	D11/CRCW0603
R203, R205	Resistor	1k	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	2	60-597-05		Vishay	D11/CRCW0603
R204	Resistor	100k	1 %	1608[0603]	-55 to 125 deg. C	75 VDC	100 mW	1	60-597-53		Vishay	D11/CRCW0603
R206, R208, R209	Potentiometer	10k		BI 44W			250 mW	3	64-324-62		BI Technologies	44WR10KLFTB
U101	Cortex-M3, 72 MHz, 20 kB RAM, 64 kB Flash	STM32F103C8T6		LQFP48	-40 to 105 deg. C			1		1447637	ST Microelectronics	STM32F103C8T6
U102	TVS Doide array, USB2	USBLC6-2P6		USBLC6-2P6	-55 to 105 deg. C	15 kV		1		1295310	ST Microelectronics	USBLC6-2P6
U103	3.3V LDO, Low Noise	LT1763CS8-3.3		SO-8	-40 to 125 deg. C	20 VDC		1	73-071-22		Linear Technology	LT1763CS8-3.3
U201	Low Noise FET Input Operational amplifier, 8 MHz	OPA132		SO-8	-40 to 125 deg. C			1	73-135-73		TI / Burr Brown	OPA132U
U202	2x Low Noise FET Input Operational amplifier, 8 MHz	OPA2132		SO-8	-40 to 125 deg. C			1	73-381-55		TI / Burr Brown	OPA2132UA
U203	High speed comparator	LT1719		SO-8	0 to 70 deg. C			1	73-207-99	1663473	Linear Technology	LT1719CS8#PBF
U204	Buffer Amplifier	LT1010		N8 PDIP-8	0 to 100 deg. C			1	73-069-31	1663326	Linear Technology	LT1010CN8#PBF
Y201	Crystal, 8MHz, 30ppm	XTAL		12SMX-B	-20 to 70 deg. C			1	74-585-08		iQD	12SMX-B