

freeDSP-aurora BOM rev 1.0.0

Reference	Qty	Footprint	Value1	Value2	Manufacturer	pn
C103	1	C0805-X7R	5n60	10% 50V X7R	Yageo	CC0805KRX7R9BB562
C101, C104, C111, C117, C119, C120, C122, C123, C125, C127, C132, C259, C260, C337, C360, C409, C410, C412, C414, C415, C502, C507, C508	23	C0805-X7R	10u0	20% 25V X5R	Murata Electronics North America	GRM21BR61E106MA73L
C102, C105, C109, C110, C118, C121, C124, C128, C129, C130, C131, C133, C134, C135, C136, C220, C230, C234, C242, C249, C261, C262, C264, C273, C274, C275, C276, C277, C278, C279, C280, C320, C328, C336, C344, C352, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C402, C403, C404, C405, C406, C407, C408, C411, C413, C501, C503, C506	65	C0805-X7R	100n	5% 50V X7R	KEMET	C0805C104K5RACTU
C106	1	C0805-X7R	150p	5% 50V C0G	KEMET	C0805C151J5GACTU
C107, C108	2	C0805-X7R	22p0	5% 50V C0G/NP0	KEMET	C0805C220J5GACTU
C112, C113, C114, C137, C138, C203, C204, C211, C212, C217, C218, C219, C227, C228, C229, C233, C237, C238, C241, C247, C248, C255, C256, C269, C270, C301, C302, C309, C310, C314, C315, C321, C324, C325, C329, C330, C331, C340, C341, C345, C346, C347, C353, C356, C357	45	RD2_D5_L11	100u	20% 25V	Nichicon	UVY1E101MDD
C115, C116, C126	3	RD3.5_D8_L14	330u	20% 25V	Wurth Electronics Inc.	860010474012
C201, C210, C225, C226, C240, C252, C267, C268	8	C0805-X7R	1n00	5% 50V PPS	Panasonic Electronic Components	ECH-U1H102JX5
C205, C206, C213, C214, C221, C222, C231, C232, C236, C243, C244, C246, C257, C258, C271, C272, C281, C282, C283, C284, C285, C286, C287, C288	24	C0805-X7R	100p	5% 50V C0G/NP0	KEMET	C0805C101J5GACTU
C202, C207, C208, C209, C215, C216, C223, C224, C235, C239, C245, C251, C253, C254, C265, C266	16	C0805-X7R	220p	2% 50V PPS	Panasonic Electronic Components	ECH-U1H221GX5
C250	1	C0805-X7R	4u70	20% 25V X5R	Murata Electronics North America	GRM21BR61E475MA12L
C263, C401	2	C0805-X7R	10n0	10% 50V X7R	Yageo	CC0805KRX7R9BB103
C305, C306, C318, C319, C334, C335, C350, C351	8	C0805-X7R	27p0	5% 50V C0G/NP0	KEMET	C0805C270J5GACTU
C307, C308, C322, C323, C338, C339, C354, C355	8	C0805-X7R	3n90	5% 16V PPS	Panasonic Electronic Components	ECH-U1C392JX5
C313	1	C0805-X7R	1u00	10% 16V X7R	Yageo	CC0805KKX7R7BB105

Reference	Qty	Footprint	Value1	Value2	Manufacturer	pn
C303, C304, C311, C312, C316, C317, C326, C327, C332, C333, C342, C343, C348, C349, C358, C359	16	C0805-X7R	470p	2% 50V PPS	Panasonic Electronic Components	ECH-U1H471GX5
C416, C504	2	C0805-X7R	22u0	20% 10V X5R	Murata Electronics North America	GRM21BR61A226ME51L
C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441	25	C0402-X7R	100n	10% 10V X7R	Murata Electronics North America	GRM155R71A104KA01D
D401	1	SOD123	MBR120VLSFT	Schottky 20V 1 A	ON Semiconductor	MBR120VLSFT3G
FER101, FER102	2	C0805-RES	600R	@100MHz 600mA	Murata Electronics North America	BLM21AG601SN1D
IC101	1	QFP72_10x10_EP	ADAU1452	-	Analog Devices Inc.	ADAU1452WBCPZ
IC102	1	SOIJ8_5.3x5.3mm_P1.27mm	DNP	1Mbit	Microchip Technology	25AA1024T-I/SM
IC103	1	SOIC8_3.9x4.9mm_Pitch1.27mm	TLE2426ID	Spannungsrefere nz	Texas Instruments	TLE2426IDR
IC104	1	SOT143	ADM811TARTZ	Spannungsmonito r	Analog Devices Inc.	ADM811TARTZ-REEL
IC105, IC107	2	SOT223	LM1117MP-5.0	LDO	Texas Instruments	LM1117MP-5.0/NOPB
IC106, IC409, IC502	3	SOT223	NCP1117LPST33	LDO	ON Semiconductor	NCP1117LPST33T3G
IC201, IC202, IC203, IC204, IC206, IC207, IC208, IC209, IC301, IC302, IC303, IC304, IC306, IC307, IC308, IC309	16	SOIC8_3.9x4.9mm_Pitch1.27mm	OPA1652AIDR	OpAmp	Texas Instruments	OPA1652AIDR
IC205	1	QFN64_9x9mm_Pitch0.5mm_EP	AK5558VN	ADC	AKM Semiconductor Inc.	AK5558VN
IC305	1	QFN48_7x7mm_Pitch0.5mm_EP	AK4458VN	DAC	AKM Semiconductor Inc.	AK4458VN
IC401	1	SC-70-6	NC7WZ07	Noninverting Buffer	ON Semiconductor	NC7WZ07P6X
IC402	1	SOT-363_SC-70-6	NC7SZ175	D-Type Flip-Flop with Asynchronous Clear	Texas Instruments	SN74LVC1G175DCKR
IC403	1	TQFP-128_14x14mm_Pitch0.4mm_EP	XE216-512-TQ128	xCore	XMOS	XE216-512-TQ128-C20
IC404	1	MSOP-10_3x3mm_Pitch0.5mm	CS2100CP	Fractional-N Clock Multiplier	Cirrus Logic Inc.	CS2100CP-CZZ
IC405, IC406	2	SC-70-6	NC7SZ157	2-Input Non-Inverting Multiplexer	ON Semiconductor	NC7SZ157P6X
IC407	1	SC70-5	TLV70025	2.5V, 200mA	Texas Instruments	TLV70025DCKR
IC408	1	SOIC8_3.9x4.9mm_Pitch1.27mm	IS25LP080D	8Mb	ISSI, Integrated Silicon Solution Inc	IS25LP080D-JNLE
IC410	1	SOT-23-5	TLV62565	1.5A	Texas Instruments	TLV62565DBVR
IC501	1	ESP32-WROOM-32U	ESP32-WROOM-32U	Module	Espressif Systems	ESP32-WROOM-32U
JP101	1	HDR_01x02	Jumper	-	Wurth Electronics Inc.	61300211121
L401	1	MCSDRH73B	2u20	30% 4.5A 26 mOhm	Murata Power Solutions Inc.	45222C
OSC401	1	ASFL1	24M0	-	Abracon LLC	ASFL1-24.000MHZ-EC-T

Reference	Qty	Footprint	Value1	Value2	Manufacturer	pn
Q101	1	TO-252-2	STD2805	PNP 60V 5A 150MHz 15W	STMicroelectron ics	STD2805T4
R101, R102, R104, R105, R407	5	R_Array_Convex_4x0603	33R0	5% 62,5mW	Yageo	TC164-JR-0733RL
R103, R114, R410	3	C0805-RES	1K00	1% 0.125W Thick	Yageo	RC0805FR-071KL
R106	1	C0805-RES	4K32	1% 0.125W Thick	Yageo	RC0805FR-074K32L
R108	1	C0805-RES	100R	1% 0.125W Thick	Yageo	RC0805FR-07100RL
R109, R239, R402, R404, R408, R409, R411, R412	8	C0805-RES	33R0	1% 0.125W Thick	Yageo	RC0805FR-0733RL
R110, R111, R416, R417	4	C0805-RES	2K00	1% 0.125W Thick	Yageo	RC0805FR-072KL
R107, R112, R113, R401, R405, R406, R413, R414, R501	9	C0805-RES	10K0	1% 0.125W Thick	Yageo	RC0805FR-0710KL
R115, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R418	18	C0805-RES	100K	1% 0.125W Thick	Yageo	RC0805FR-07100KL
R116	1	C0805-RES	560R	1% 0.125W Thick	Yageo	RC0805FR-07560RL
R203, R204, R207, R208, R221, R222, R229, R230, R241, R243, R250, R252, R255, R256, R259, R260	16	C0805-RES	10K0	1% 0.25W Thin	Stackpole Electronics Inc.	RNCP0805FTD10K0
R201, R202, R209, R210, R219, R220, R231, R232, R240, R244, R249, R253, R254, R261, R262, R273	16	C0805-RES	6K80	0.5% 0.125W Thin	Panasonic Electronic Components	ERA-6AED682V
R205, R206, R211, R223, R224, R242, R248, R251, R257, R258, R268, R270, R272, R276, R278, R280	16	C0805-RES	10R0	1% 0.25W Thin	Stackpole Electronics Inc.	RNCP0805FTD10R0
R218, R228, R238, R246, R323, R334, R349, R356	8	C0805-RES	20R0	1% 0.125W Thick	Yageo	RC0805FR-0720RL
R212, R233, R234, R245, R247, R263, R264, R265, R266, R267, R269, R271, R274, R275, R277, R279	16	C0805-RES	2K20	0.5% 0.125W Thin	Panasonic Electronic Components	ERA-6AED222V
R301, R303, R311, R313, R317, R319, R328, R330, R335, R337, R345, R347, R352, R354, R368, R370	16	C0805-RES	4K42	0.5% 0.1W Thin	Susumu	RR1220P-4421-D-M
R302, R304, R315, R316, R318, R320, R332, R333, R336, R338, R350, R351, R353, R355, R372, R373	16	C0805-RES	3K40	0.5% 0.1W Thin	Susumu	RR1220P-3401-D-M
R305, R306, R312, R314, R321, R322, R329, R331, R339, R340, R346, R348, R357, R358, R369, R371	16	C0805-RES	150R	1% 0.25W Thin	Stackpole Electronics Inc.	RNCP0805FTD150R
R307, R308, R309, R310, R324, R325, R326, R327, R341, R342, R343, R344, R364, R365, R366, R367	16	C0805-RES	4K70	1% 0.125W Thin	Yageo	RT0805FRE074K7L
R403	1	C0805-RES	4R70	1% 0.125W Thick	Yageo	RC0805FR-074R7L
R415	1	C0805-RES	43R2	1% 0.125W Thick	Panasonic Electronic Components	ERJ-6ENF43R2V
R419	1	C0805-RES	80K6	1% 0.125W Thick	Yageo	RC0805FR-0780K6L
R420	1	C0805-RES	120K	1% 0.125W Thick	Yageo	RC0805FR-07120KL

Reference	Qty	Footprint	Value1	Value2	Manufacturer	pn
SW501	1	SW_SPST_B3U-1000P	B3U-1000P	SWITCH TACTILE SPST-NO 0.05A 12V	Omron Electronics Inc-EMC Div	B3U-1000P
X101	1	MM-14G	MicroMatch-14	-	TE Connectivity AMP Connectors	1-215079-4
X102	1	HDR_02x08	HDR_02x08	-	Sullins Connector Solutions	PRPC008DAAN-RC
X103, X503	2	Molex_PicoBlade_530470310	PB-01x03	-	Molex, LLC	530470310
X104	1	MM-10G	MicroMatch-10	-	TE Connectivity AMP Connectors	1-215079-0
X105	1	Microfit3_43045-0428	MicroFit3 02x02	-	Molex, LLC	430450428
X106	1	HDR_01x02	HDR-01x02	-	Wurth Electronics Inc.	61300211121
X201, X301	2	IDC26	IDC26	-	Bud Industries	BC-32677
X401	1	PinHeader_1x05_P2.54mm_Vertical	HDR-01x05	-	Sullins Connector Solutions	PRPC005SAAN-RC
X402	1	HDR_02x10	HDR-02x10	-	Sullins Connector Solutions	PRPC010DAAN-RC
X501	1	Molex_KK254_0022032041	KK254-01x04	-	Molex, LLC	22232041
X502	1	Molex_PicoBlade_530470510	PB-01x05	-	Molex, LLC	530470510
X504	1	PinHeader_1x06_P2.54mm_Vertical	HDR-01x06	-	Sullins Connector Solutions	PRPC006SAAN-RC
Y101	1	Crystal-3.2x2.5	24M576	-	EPSON	FA-238 24.5760MB-K3
	1		RF ANT 2.4GHZ	WHIP TILT CABLE	PulseLarsen Antennas	W1049B050