INCOAX Bill of Materials

Project: 00-2025-0000-00-PCB-0000 - ESP32-WROOM-32 Power Board (MP-WR-V00-01-PCB-0000)
Project: 00-2025-0000-00-PCB-0000 Revision: 00-2025-0000_00-PCB-0000

Created Date: 2025/08/04 00:00:00 00:00:00 00:00:00

Quantity	Designator	Comment	Description	Vendor	ICN	Vendor 2	ICN 2	Footprint
1	MP1	2.54mm	1x8 Vertical - 2.54mm pitch	Pinrex Connector	SC-1R1H-1S2T			2.54_1X1H-1S2T-2.54
102	C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C21,C22,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C62,C63,C64,C65,C66,C67,C68,C69,C70,C71,C72,C73,C74,C75,C76,C77,C78,C79,C80,C81,C82,C83,C84,C85,C86,C87,C88,C89,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C102	100nF	MLCC - 0402 - 100nF - 16V - ±10%	Murata	GRM155R61C104KA88D			C0402
1	U1	ESP32-WROOM-32	RF Module, ESP32-D0WDQ6 SoC, 16MB Flash, PCB Antenna	Espressif	ESP32-WROOM-32			ESP32-WROOM-32
1	U2	TPS63020DSJR	2.5A Buck-Boost Converter	TI Semiconductor	SC6203-0R5-00			QFN50P300X300X80-11N
20	R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R16,R17,R18,R19,R20	100k	RES SMD 100K OHM 1% 1/16W 0402	JLCB	RCP-0402-100K-T	0805T	2SA0402-100K-R5	C0402
2	Q1,Q2	2N7002	60V, 115mA, 2Ω @ 5V, 1Ω @ 10V, 2.5V @ 250µA, SOT-23	YAGEO	2SA0402-7R5K	Panasonic	ECJ-0VC0J106M-B	C0402
1	C101,C102	10uF	CAP CER 10UF 6.3V X5R 0402	Murata	GCM155C61C			C0402
10	R101,R102,R103,R104,R105,R106,R107,R108,R109,R110	330	RES SMD 330Ω 0.5% 1/16W 0402	Ancera	AR0402-330			C0402
1	LED1							
1	C103	10uF	CAP CER 10UF 6.3V X5R 0402	Murata	GCM155C61C			C0402
1	C104,C105	10uF	CAP CER 10UF 6.3V X5R 0402	Panasonic	ECJ-0VC0J106M			C0402
10	R201,R202,R203,R204,R205,R206,R207,R208,R209,R210	1k	RES SMD 1KΩ 0.5% 1/16W 0402	Murata	RC0402FR-07			C0402
1	C106,C107,C108,C109,C110,C111	100nF	CAP CER 100NF 10V X7R 0402	Murata	GRM155R71A			C0402
1	C112,C113,C114,C115	10uF	CAP CER 10UF 6.3V X5R 0402	Murata	GRM155R61C			C0402
1	C116,C117,C118,C119,C120,C121,C122,C123,C124,C125,C126,C127,C128,C129,C130,C131,C132,C133,C134,C135,C136,C137,C138,C139,C140,C141,C142,C143,C144,C145,C146,C147,C148,C149,C150,C151,C152,C153,C154,C155,C156,C157,C158,C159,C160,C161,C162,C163,C164,C165,C166,C167,C168,C169,C170,C171,C172,C173,C174,C175,C176,C177,C178,C179,C180,C181,C182,C183,C184,C185,C186,C187,C188,C189,C190,C191,C192,C193,C194,C195,C196,C197,C198,C199,C200,C201,C202,C203,C204,C205,C206,C207,C208,C209,C210,C211,C212,C213,C214,C215,C216,C217,C218,C219,C220,C221,C222,C223,C224,C225,C226,C227,C228,C229,C230,C231,C232,C233,C234,C235,C236,C237,C238,C239,C240,C241,C242,C243,C244,C245,C246,C247,C248,C249,C250,C251,C252,C253,C254,C255,C256,C257,C258,C259,C260,C261,C262,C263,C264,C265,C266,C267,C268,C269,C270,C271,C272,C273,C274,C275,C276,C277,C278,C279,C280,C281,C282,C283,C284,C285,C286,C287,C288,C289,C290,C291,C292,C293,C294,C295,C296,C297,C298,C299,C300,C301,C302,C303,C304,C305,C306,C307,C308,C309,C310,C311,C312,C313,C314,C315,C316,C317,C318,C319,C320,C321,C322,C323,C324,C325,C326,C327,C328,C329,C330,C331,C332,C333,C334,C335,C336,C337,C338,C339,C340,C341,C342,C343,C344,C345,C346,C347,C348,C349,C350,C351,C352,C353,C354,C355,C356,C357,C358,C359,C360,C361,C362,C363,C364,C365,C366,C367,C368,C369,C370,C371,C372,C373,C374,C375,C376,C377,C378,C379,C380,C381,C382,C383,C384,C385,C386,C387,C388,C389,C390,C391,C392,C393,C394,C395,C396,C397,C398,C399,C400,C401,C402,C403,C404,C405,C406,C407,C408,C409,C410,C411,C412,C413,C414,C415,C416,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,C442,C443,C444,C445,C446,C447,C448,C449,C450,C451,C452,C453,C454,C455,C456,C457,C458,C459,C460,C461,C462,C463,C464,C465,C466,C467,C468,C469,C470,C471,C472,C473,C474,C475,C476,C477,C478,C479,C480,C481,C482,C483,C484,C485,C486,C487,C488,C489,C490,C491,C492,C493,C494,C495,C496,C497,C498,C499,C500,C501,C502,C503,C504,C505,C506,C507,C508,C509,C510,C511,C512,C513,C514,C515,C516,C517,C518,C519,C520,C521,C522,C523,C524,C525,C526,C527,C528,C529,C530,C531,C532,C533,C534,C535,C536,C537,C538,C539,C540,C541,C542,C543,C544,C545,C546,C547,C548,C549,C550,C551,C552,C553,C554,C555,C556,C557,C558,C559,C560,C561,C562,C563,C564,C565,C566,C567,C568,C569,C570,C571,C572,C573,C574,C575,C576,C577,C578,C579,C580,C581,C582,C583,C584,C585,C586,C587,C588,C589,C590,C591,C592,C593,C594,C595,C596,C597,C598,C599,C600,C601,C602,C603,C604,C605,C606,C607,C608,C609,C610,C611,C612,C613,C614,C615,C616,C617,C618,C619,C620,C621,C622,C623,C624,C625,C626,C627,C628,C629,C630,C631,C632,C633,C634,C635,C636,C637,C638,C639,C640,C641,C642,C643,C644,C645,C646,C647,C648,C649,C650,C651,C652,C653,C654,C655,C656,C657,C658,C659,C660,C661,C662,C663,C664,C665,C666,C667,C668,C669,C670,C671,C672,C673,C674,C675,C676,C677,C678,C679,C680,C681,C682,C683,C684,C685,C686,C687,C688,C689,C690,C691,C692,C693,C694,C695,C696,C697,C698,C699,C700,C701,C702,C703,C704,C705,C706,C707,C708,C709,C710,C711,C712,C713,C714,C715,C716,C717,C718,C719,C720,C721,C722,C723,C724,C725,C726,C727,C728,C729,C730,C731,C732,C733,C734,C735,C736,C737,C738,C739,C740,C741,C742,C743,C744,C745,C746,C747,C748,C749,C750,C751,C752,C753,C754,C755,C756,C757,C758,C759,C760,C761,C762,C763,C764,C765,C766,C767,C768,C769,C770,C771,C772,C773,C774,C775,C776,C777,C778,C779,C780,C781,C782,C783,C784,C785,C786,C787,C788,C789,C790,C791,C792,C793,C794,C795,C796,C797,C798,C799,C800,C801,C802,C803,C804,C805,C806,C807,C808,C809,C810,C811,C812,C813,C814,C815,C816,C817,C818,C819,C820,C821,C822,C823,C824,C825,C826,C827,C828,C829,C830,C831,C832,C833,C834,C835,C836,C837,C838,C839,C840,C841,C842,C843,C844,C845,C846,C847,C848,C849,C850,C851,C852,C853,C854,C855,C856,C857,C858,C859,C860,C861,C862,C863,C864,C865,C866,C867,C868,C869,C870,C871,C872,C873,C874,C875,C876,C877,C878,C879,C880,C881,C882,C883,C884,C885,C886,C887,C888,C889,C890,C891,C892,C893,C894,C895,C896,C897,C898,C899,C900,C901,C902,C903,C904,C905,C906,C907,C908,C909,C910,C911,C912,C913,C914,C915,C916,C917,C918,C919,C920,C921,C922,C923,C924,C925,C926,C927,C928,C929,C930,C931,C932,C933,C934,C935,C936,C937,C938,C939,C940,C941,C942,C943,C944,C945,C946,C947,C948,C949,C950,C951,C952,C953,C954,C955,C956,C957,C958,C959,C960,C961,C962,C963,C964,C965,C966,C967,C968,C969,C970,C971,C972,C973,C974,C975,C976,C977,C978,C979,C980,C981,C982,C983,C984,C985,C986,C987,C988,C989,C990,C991,C992,C993,C994,C995,C996,C997,C998,C999,C1000,C1001,C1002,C1003,C1004,C1005,C1006,C1007,C1008,C1009,C1010,C1011,C1012,C1013,C1014,C1015,C1016,C1017,C1018,C1019,C1020,C1021,C1022,C1023,C1024,C1025,C1026,C1027,C1028,C1029,C1030,C1031,C1032,C1033,C1034,C1035,C1036,C1037,C1038,C1039,C1040,C1041,C1042,C1043,C1044,C1045,C1046,C1047,C1048,C1049,C1050,C1051,C1052,C1053,C1054,C1055,C1056,C1057,C1058,C1059,C1060,C1061,C1062,C1063,C1064,C1065,C1066,C1067,C1068,C1069,C1070,C1071,C1072,C1073,C1074,C1075,C1076,C1077,C1078,C1079,C1080,C1081,C1082,C1083,C1084,C1085,C1086,C1087,C1088,C1089,C1090,C1091,C1092,C1093,C1094,C1095,C1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