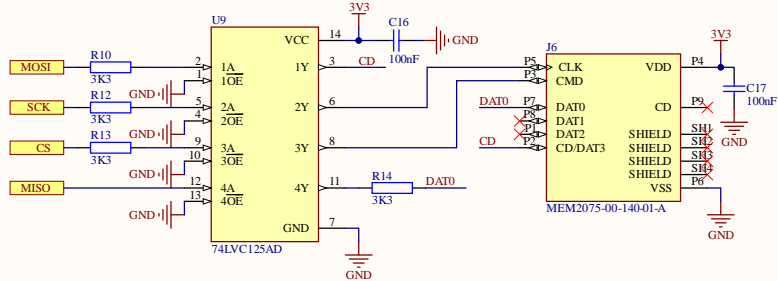
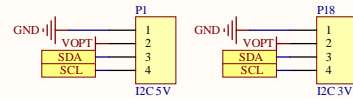


Size A3	Number	Revision
Date:	2/23/2023	Sheet of
File:	D:\EduTic Project\...\Core_ESP32_ATME6428B_V1.01_SchDocu, S.T.	

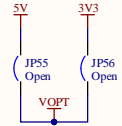
SD CARD ONBOARD



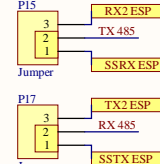
I2C INTERFACE



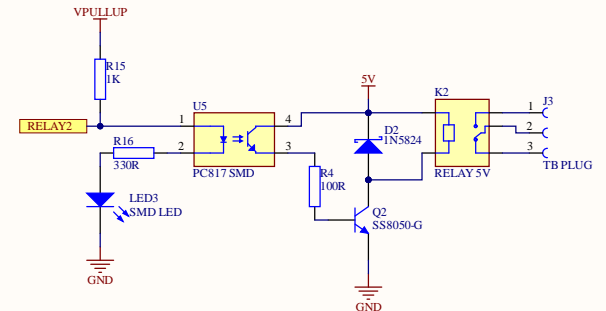
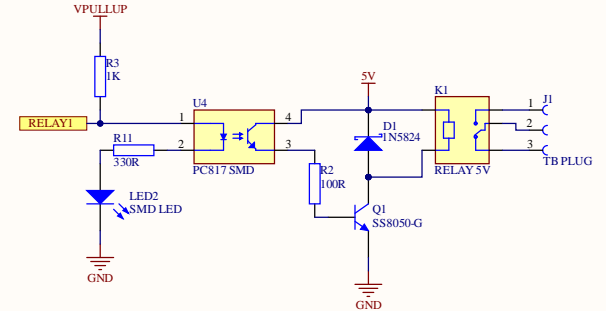
VOLTAGE OPTION



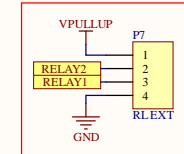
ESP32 TO RS485



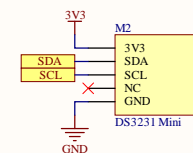
DRIVER RELAY



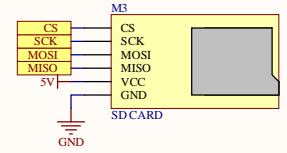
INPUT OPTOCOUPLER PIN HEADER RELAY 2 CHANNEL EXTERNAL



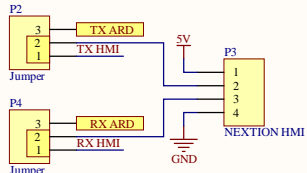
MODULE MINI RTC



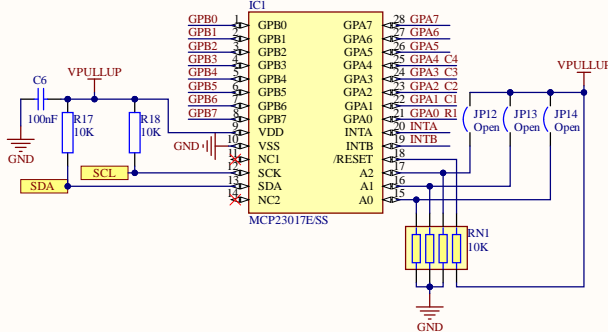
MODULE SD CARD



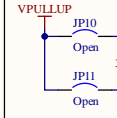
SERIAL USART HMI



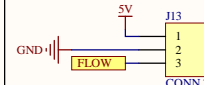
I/O EXPANDER



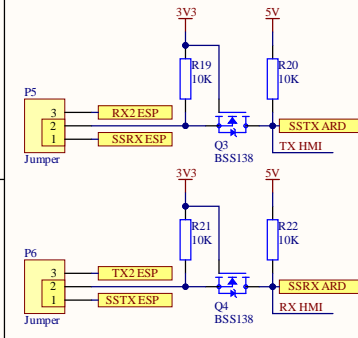
VPULLUP SELECT



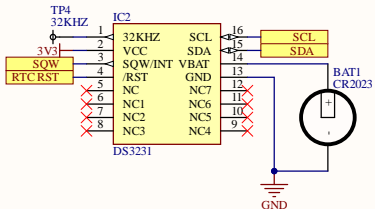
FLOW SENSOR



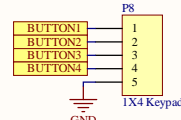
LVL CONVERTER UART



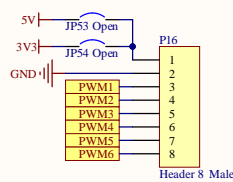
RTC ONBOARD



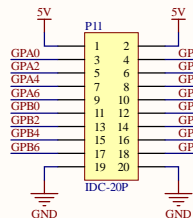
MEMBRANE KEYPAD 1X4



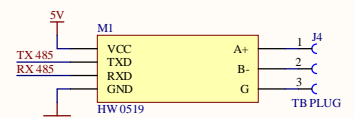
PINOUT PWM



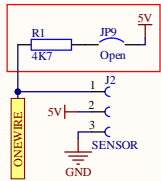
PIN I/O EXPANDER



MODULE UART TO RS485



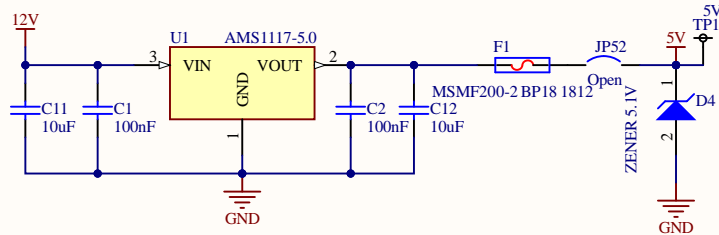
ONEWIRE SENSOR



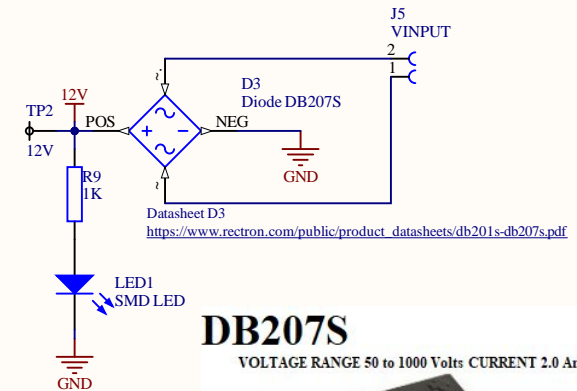
OPTIONAL FOR DS18B20

SENSOR_and_Input_Output V1.0.SchDoc

REGULATOR 5V



INPUT 12V

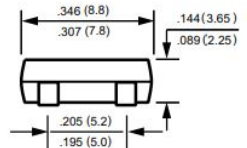
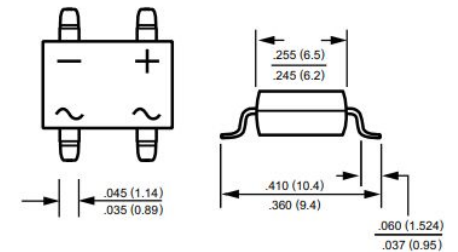


DB207S

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

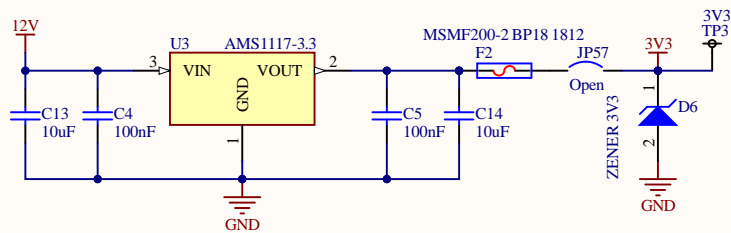


DB-S

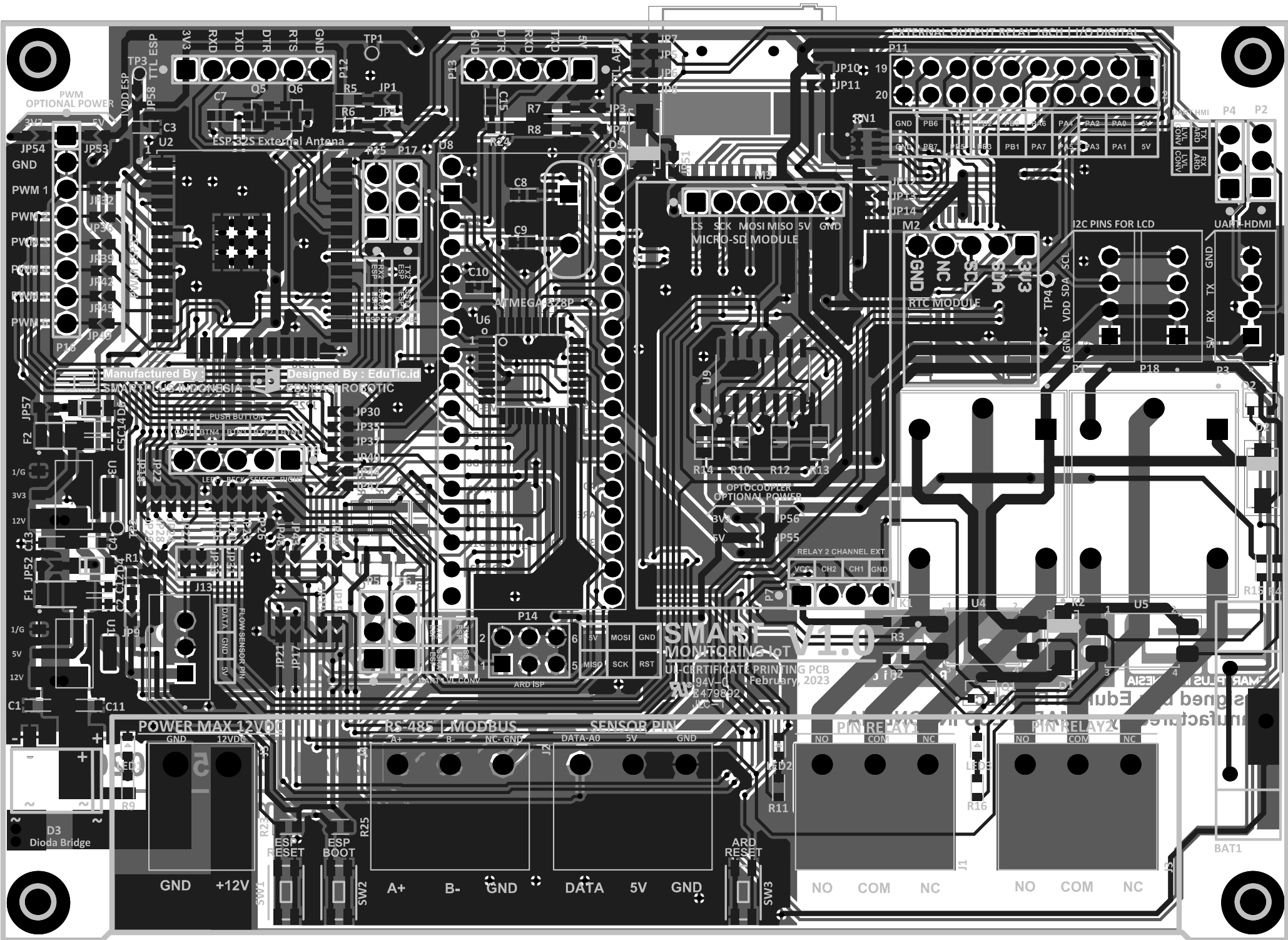


Dimensions in inches and (millimeters)

REGULATOR 3V3



Title		
Power_and_Regulator V1.0.SchDoc		
Size	Number	Revision
A4		
Date:	2/23/2023	Sheet of
File:	D:\EduTicProject\Power_and_Regulator V1.0.SchDoc	Author: D. S. D. bimanyu, S.T.



Item#	Description	Manufacturer	Footprint	Ref	Quantity
BATT001	BATTERY HOLDER	BATT1	BATT_F0001	BATT_C0001	1
0001	0001 0001 Nom Priority Capacitor, 100k 0001 Nom Priority Capacitor	C1, C2, C3, C4, C5, C15, C15	0001_0001	0001_0001	2
0002	0002 0002 Nom Priority Capacitor	C6, C7, C17	CAP_0002_Capacitor	0002_0002	2
0003	0003 0003 Nom Priority Capacitor	C7	0003_0003	0003_0003	2
0004	0004 0004 Nom Priority Capacitor	C8, C9	0004_0004	0004_0004	2
0005	0005 0005 Nom Priority Capacitor	C11, C12, C13, C14	0005_0005	0005_0005	2
0006	0006 0006 Nom Priority Capacitor	C15, C16, C17	0006_0006	0006_0006	2
0007	0007 0007 Nom Priority Capacitor	C18, C19	0007_0007	0007_0007	2
0008	0008 0008 Nom Priority Capacitor	C20, C21, C22, C23	0008_0008	0008_0008	2
0009	0009 0009 Nom Priority Capacitor	C24, C25, C26, C27	0009_0009	0009_0009	2
0010	0010 0010 Nom Priority Capacitor	C28, C29, C30, C31	0010_0010	0010_0010	2
0011	0011 0011 Nom Priority Capacitor	C32, C33, C34, C35	0011_0011	0011_0011	2
0012	0012 0012 Nom Priority Capacitor	C36, C37, C38, C39	0012_0012	0012_0012	2
0013	0013 0013 Nom Priority Capacitor	C40, C41, C42, C43	0013_0013	0013_0013	2
0014	0014 0014 Nom Priority Capacitor	C44, C45, C46, C47	0014_0014	0014_0014	2
0015	0015 0015 Nom Priority Capacitor	C48, C49, C50, C51	0015_0015	0015_0015	2
0016	0016 0016 Nom Priority Capacitor	C52, C53, C54, C55	0016_0016	0016_0016	2
0017	0017 0017 Nom Priority Capacitor	C56, C57, C58, C59	0017_0017	0017_0017	2
0018	0018 0018 Nom Priority Capacitor	C60, C61, C62, C63	0018_0018	0018_0018	2
0019	0019 0019 Nom Priority Capacitor	C64, C65, C66, C67	0019_0019	0019_0019	2
0020	0020 0020 Nom Priority Capacitor	C68, C69, C70, C71	0020_0020	0020_0020	2
0021	0021 0021 Nom Priority Capacitor	C72, C73, C74, C75	0021_0021	0021_0021	2
0022	0022 0022 Nom Priority Capacitor	C76, C77, C78, C79	0022_0022	0022_0022	2
0023	0023 0023 Nom Priority Capacitor	C80, C81, C82, C83	0023_0023	0023_0023	2
0024	0024 0024 Nom Priority Capacitor	C84, C85, C86, C87	0024_0024	0024_0024	2
0025	0025 0025 Nom Priority Capacitor	C88, C89, C90, C91	0025_0025	0025_0025	2
0026	0026 0026 Nom Priority Capacitor	C92, C93, C94, C95	0026_0026	0026_0026	2
0027	0027 0027 Nom Priority Capacitor	C96, C97, C98, C99	0027_0027	0027_0027	2
0028	0028 0028 Nom Priority Capacitor	C100, C101, C102, C103	0028_0028	0028_0028	2
0029	0029 0029 Nom Priority Capacitor	C104, C105, C106, C107	0029_0029	0029_0029	2
0030	0030 0030 Nom Priority Capacitor	C108, C109, C110, C111	0030_0030	0030_0030	2
0031	0031 0031 Nom Priority Capacitor	C112, C113, C114, C115	0031_0031	0031_0031	2
0032	0032 0032 Nom Priority Capacitor	C116, C117, C118, C119	0032_0032	0032_0032	2
0033	0033 0033 Nom Priority Capacitor	C120, C121, C122, C123	0033_0033	0033_0033	2
0034	0034 0034 Nom Priority Capacitor	C124, C125, C126, C127	0034_0034	0034_0034	2
0035	0035 0035 Nom Priority Capacitor	C128, C129, C130, C131	0035_0035	0035_0035	2
0036	0036 0036 Nom Priority Capacitor	C132, C133, C134, C135	0036_0036	0036_0036	2
0037	0037 0037 Nom Priority Capacitor	C136, C137, C138, C139	0037_0037	0037_0037	2
0038	0038 0038 Nom Priority Capacitor	C140, C141, C142, C143	0038_0038	0038_0038	2
0039	0039 0039 Nom Priority Capacitor	C144, C145, C146, C147	0039_0039	0039_0039	2
0040	0040 0040 Nom Priority Capacitor	C148, C149, C150, C151	0040_0040	0040_0040	2
0041	0041 0041 Nom Priority Capacitor	C152, C153, C154, C155	0041_0041	0041_0041	2
0042	0042 0042 Nom Priority Capacitor	C156, C157, C158, C159	0042_0042	0042_0042	2
0043	0043 0043 Nom Priority Capacitor	C160, C161, C162, C163	0043_0043	0043_0043	2
0044	0044 0044 Nom Priority Capacitor	C164, C165, C166, C167	0044_0044	0044_0044	2
0045	0045 0045 Nom Priority Capacitor	C168, C169, C170, C171	0045_0045	0045_0045	2
0046	0046 0046 Nom Priority Capacitor	C172, C173, C174, C175	0046_0046	0046_0046	2
0047	0047 0047 Nom Priority Capacitor	C176, C177, C178, C179	0047_0047	0047_0047	2
0048	0048 0048 Nom Priority Capacitor	C180, C181, C182, C183	0048_0048	0048_0048	2
0049	0049 0049 Nom Priority Capacitor	C184, C185, C186, C187	0049_0049	0049_0049	2
0050	0050 0050 Nom Priority Capacitor	C188, C189, C190, C191	0050_0050	0050_0050	2
0051	0051 0051 Nom Priority Capacitor	C192, C193, C194, C195	0051_0051	0051_0051	2
0052	0052 0052 Nom Priority Capacitor	C196, C197, C198, C199	0052_0052	0052_0052	2
0053	0053 0053 Nom Priority Capacitor	C200, C201, C202, C203	0053_0053	0053_0053	2
0054	0054 0054 Nom Priority Capacitor	C204, C205, C206, C207	0054_0054	0054_0054	2
0055	0055 0055 Nom Priority Capacitor	C208, C209, C210, C211	0055_0055	0055_0055	2
0056	0056 0056 Nom Priority Capacitor	C212, C213, C214, C215	0056_0056	0056_0056	2
0057	0057 0057 Nom Priority Capacitor	C216, C217, C218, C219	0057_0057	0057_0057	2
0058	0058 0058 Nom Priority Capacitor	C220, C221, C222, C223	0058_0058	0058_0058	2
0059	0059 0059 Nom Priority Capacitor	C224, C225, C226, C227	0059_0059	0059_0059	2
0060	0060 0060 Nom Priority Capacitor	C228, C229, C230, C231	0060_0060	0060_0060	2
0061	0061 0061 Nom Priority Capacitor	C232, C233, C234, C235	0061_0061	0061_0061	2
0062	0062 0062 Nom Priority Capacitor	C236, C237, C238, C239	0062_0062	0062_0062	2
0063	0063 0063 Nom Priority Capacitor	C240, C241, C242, C243	0063_0063	0063_0063	2
0064	0064 0064 Nom Priority Capacitor	C244, C245, C246, C247	0064_0064	0064_0064	2
0065	0065 0065 Nom Priority Capacitor	C248, C249, C250, C251	0065_0065	0065_0065	2
0066	0066 0066 Nom Priority Capacitor	C252, C253, C254, C255	0066_0066	0066_0066	2
0067	0067 0067 Nom Priority Capacitor	C256, C257, C258, C259	0067_0067	0067_0067	2
0068	0068 0068 Nom Priority Capacitor	C260, C261, C262, C263	0068_0068	0068_0068	2
0069	0069 0069 Nom Priority Capacitor	C264, C265, C266, C267	0069_0069	0069_0069	2
0070	0070 0070 Nom Priority Capacitor	C268, C269, C270, C271	0070_0070	0070_0070	2
0071	0071 0071 Nom Priority Capacitor	C272, C273, C274, C275	0071_0071	0071_0071	2
0072	0072 0072 Nom Priority Capacitor	C276, C277, C278, C279	0072_0072	0072_0072	2
0073	0073 0073 Nom Priority Capacitor	C280, C281, C282, C283	0073_0073	0073_0073	2
0074	0074 0074 Nom Priority Capacitor	C284, C285, C286, C287	0074_0074	0074_0074	2
0075	0075 0075 Nom Priority Capacitor	C288, C289, C290, C291	0075_0075	0075_0075	2
0076	0076 0076 Nom Priority Capacitor	C292, C293, C294, C295	0076_0076	0076_0076	2
0077	0077 0077 Nom Priority Capacitor	C296, C297, C298, C299	0077_0077	0077_0077	2
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0080	0080 0080 Nom Priority Capacitor	C308, C309, C310, C311	0080_0080	0080_0080	2
0081	0081 0081 Nom Priority Capacitor	C312, C313, C314, C315	0081_0081	0081_0081	2
0082	0082 0082 Nom Priority Capacitor	C316, C317, C318, C319	0082_0082	0082_0082	2
0083	0083 0083 Nom Priority Capacitor	C320, C321, C322, C323	0083_0083	0083_0083	2
0084	0084 0084 Nom Priority Capacitor	C324, C325, C326, C327	0084_0084	0084_0084	2
0085	0085 0085 Nom Priority Capacitor	C328, C329, C330, C331	0085_0085	0085_0085	2
0086	0086 0086 Nom Priority Capacitor	C332, C333, C334, C335	0086_0086	0086_0086	2
0087	0087 0087 Nom Priority Capacitor	C336, C337, C338, C339	0087_0087	0087_0087	2
0088	0088 0088 Nom Priority Capacitor	C340, C341, C342, C343	0088_0088	0088_0088	2
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0090	0090 0090 Nom Priority Capacitor	C348, C349, C350, C351	0090_0090	0090_0090	2
0091	0091 0091 Nom Priority Capacitor	C352, C353, C354, C355	0091_0091	0091_0091	2
0092	0092 0092 Nom Priority Capacitor	C356, C357, C358, C359	0092_0092	0092_0092	2
0093	0093 0093 Nom Priority Capacitor	C360, C361, C362, C363	0093_0093	0093_0093	2
0094	0094 0094 Nom Priority Capacitor	C364, C365, C366, C367	0094_0094	0094_0094	2
0095	0095 0095 Nom Priority Capacitor	C368, C369, C370, C371	0095_0095	0095_0095	2
0096	0096 0096 Nom Priority Capacitor	C372, C373, C374, C375	0096_0096	0096_0096	2
0097	0097 0097 Nom Priority Capacitor	C376, C377, C378, C379	0097_0097	0097_0097	2
0098	0098 0098 Nom Priority Capacitor	C380, C381, C382, C383	0098_0098	0098_0098	2
0099	0099 0099 Nom Priority Capacitor	C384, C385, C386, C387	0099_0099	0099_0099	2
0100	0100 0100 Nom Priority Capacitor	C388, C389, C390, C391	0100_0100	0100_0100	2
0101	0101 0101 Nom Priority Capacitor	C392, C393, C394, C395	0101_0101	0101_0101	2
0102	0102 0102 Nom Priority Capacitor	C396, C397, C398, C399	0102_0102	0102_0102	2
0103	0103 0103 Nom Priority Capacitor	C400, C401, C402, C403	0103_0103	0103_0103	2
0104	0104 0104 Nom Priority Capacitor	C404, C405, C406, C407	0104_0104	0104_0104	2
0105	0105 0105 Nom Priority Capacitor	C408, C409, C410, C411	0105_0105	0105_0105	2
0106	0106 0106 Nom Priority Capacitor	C412, C413, C414, C415	0106_0106	0106_0106	2
0107	0107 0107 Nom Priority Capacitor	C416, C417, C418, C419	0107_0107	0107_0107	2
0108	0108 0108 Nom Priority Capacitor	C420, C421, C422, C423	0108_0108	0108_0108	2
0109	0109 0109 Nom Priority Capacitor	C424, C425, C426, C427	0109_0109	0109_0109	2
0110	0110 0110 Nom Priority Capacitor	C428, C429, C430, C431	0110_0110	0110_0110	2
0111	0111 0111 Nom Priority Capacitor	C432, C433, C434, C435	0111_0111	0111_0111	2
0112	0112 0112 Nom Priority Capacitor	C436, C437, C438, C439	0112_0112	0112_0112	2
0113	0113 0113 Nom Priority Capacitor	C440, C441, C442, C443	0113_0113	0113_0113	2
0114	0114 0114 Nom Priority Capacitor	C444, C445, C446, C447	0114_0114	0114_0114	2
0115	0115 0115 Nom Priority Capacitor	C448, C449, C450, C451	0115_0115	0115_0115	2
0116	0116 0116 Nom Priority Capacitor	C452, C453, C454, C455	0116_0116	0116_0116	2
0117	0117 0117 Nom Priority Capacitor	C456, C457, C458, C459	0117_0117	0117_0117	2
0118	0118 0118 Nom Priority Capacitor	C460, C461, C462, C463	0118_0118	0118_0118	2
0119	0119 0119 Nom Priority Capacitor	C464, C465, C466, C467	0119_0119	0119_0119	2
0120	0120 0120 Nom Priority Capacitor	C468, C469, C470, C471	0120_0120	0120_0120	2
0121	0121 0121 Nom Priority Capacitor	C472, C473, C474, C475	0121_0121	0121_0121	2
0122	0122 0122 Nom Priority Capacitor	C476, C477, C478, C479	0122_0122	0122_0122	2
0123	0123 0123 Nom Priority Capacitor	C480, C481, C482, C483	0123_0123	0123_0123	2
0124	0124 0124 Nom Priority Capacitor	C484, C485, C486, C487	0124_0124	0124_0124	2
0125	0125 0125 Nom Priority Capacitor	C488, C489, C490, C491	0125_0125	0125_0125	2
0126	0126 0126 Nom Priority Capacitor	C492, C493, C494, C495	0126_0126	0126_0126	2
0127	0127 0127 Nom Priority Capacitor	C496, C497, C498, C499	0127_0127	0127_0127	2
0128	0128 0128 Nom Priority Capacitor	C500, C501, C502, C503	0128_0128	0128_0128	2
0129	0129 0129 Nom Priority Capacitor	C504, C505, C506, C507	0129_0129	0129_0129	2
0130	0130 0130 Nom Priority Capacitor	C508, C509, C510, C511	0130_0130	0130_0130	2
0131	0131 0131 Nom Priority Capacitor	C512, C513, C514, C515	0131_0131	0131_0131	2
0132	0132 0132 Nom Priority Capacitor	C516, C517, C518, C519	0132_0132	0132_0132	2
0133	0133 0133 Nom Priority Capacitor	C520, C521, C522, C523	0133_0133	0133_0133	2
0134	0134 0134 Nom Priority Capacitor	C524, C525, C526, C527	0134_0134	0134_0134	2
0135	0135 0135 Nom Priority Capacitor	C528, C529, C530,			