



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1 C4 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	39	CAP. CERAMIC, 100F, 10V, XGR, 20%, 501	100F	20%	201	Panasonic	ECLZEB1A104M	Yes	Yes
C3 C5 C14 C17 C25 C28 C31 C35 C40 C47 C82 C84 C86 C88 C70 C72 C74 C105 C107 C108 C110 C116 C119	23	CAP. TANTALUM CHIP, 510, 10U, 10V, 10%, 3216	10U	10%	3216-18	AVX	TAJA106K010R	Yes	Yes
C18	1	CAP. CERAMIC, 1uF, 8-3V, X7R, 10%, 0603	1uF	10%	0603	Kemet	C0409C108B2ACT1	Yes	Yes
C19	1	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Murata	GRM156R71C104K6R0	Yes	Yes
C20	3	CAP. CERAMIC, 100uF, 15V, X5R, 10%, 5002	100uF	10%	5002	AVX	ECZ0E1C100R	Yes	Yes
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	8	CAP. TANTALUM CHIP, 150V, 50U, 10%, 10V, 10%, 3216	10U	10%	3216-18	AVX	TPSA150D01R5000	Yes	Yes
C20 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	6	CAP. CERAMIC, 10uF, 10V, X5R, 10%, 0501	10uF	10%	0501	Panasonic	EC-ZEB1A100K	Yes	Yes
C26	1	CAP. TANTALUM CHIP, 100V, 50U, 10%, 10V, 10%, 3216	50U	10%	3216-18	Kemet	TKD775200020R	Yes	Yes
C26 C28 C47	3	CAP. CERAMIC, 1uF, 10V, X7R, 10%, 0603	1uF	10%	0603	Panasonic	EC-ZEB1A100K	Yes	Yes
C28	1	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C29	2	CAP. CERAMIC, 10uF, 10V, X5R, 10%, 0501	10uF	10%	0501	AVX	EC-ZEB1A100K	Yes	Yes
C32 C33	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C33 C34	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C34 C35	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C35 C36	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C36 C37	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C37 C38	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C38 C39	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C39 C40	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C40 C41	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C41 C42	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C42 C43	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C43 C44	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C44 C45	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C45 C46	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C46 C47	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C47 C48	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C48 C49	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C49 C50	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C50 C51	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C51 C52	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C52 C53	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C53 C54	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C54 C55	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C55 C56	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C56 C57	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C57 C58	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C58 C59	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C59 C60	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C60 C61	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C61 C62	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C62 C63	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C63 C64	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C64 C65	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C65 C66	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C66 C67	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C67 C68	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C68 C69	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C69 C70	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C70 C71	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C71 C72	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C72 C73	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C73 C74	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C74 C75	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C75 C76	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C76 C77	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C77 C78	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C78 C79	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C79 C80	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C80 C81	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C81 C82	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C82 C83	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C83 C84	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C84 C85	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C85 C86	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C86 C87	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C87 C88	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C88 C89	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C89 C90	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C90 C91	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C91 C92	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C92 C93	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C93 C94	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C94 C95	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C95 C96	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C96 C97	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C97 C98	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C98 C99	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
C99 C100	2	CAP. CERAMIC, 100nF, 16V, X7R, 10%, 0402	100nF	10%	0402	Panasonic	EC-ZEB1A100K	Yes	Yes
D1 D2	2	INDUCTOR, CHIP, CLEAR LENS, 2.2UH, 50MA, SMD, 0603	2.2UH	±5%	0603	TDK Corporation	CR2506C2R221J	Yes	Yes
J1	1	CONN. SOCKET, HIGH SPEED, 2406, 52 SIG PINS, 0.635MM PITCH, ALIGNMENT PINS, 1 COND BUS PIN, LIGHT GOLD PLYG, RETENTION PINS	COND-2406-J (QFS)			Santec	QFS-026-04-25-L-D-0-K1	Yes	Yes
J2	1	CONN. JACK, PHONO (RCA), RIGHT ANGLE, YELLOW, 2 PINS, THRU HOLES	CONN-JACK-YEL-RA-1			CLJ Inc.	RCJ4-044	Yes	Yes
L1	1	IND. CHIP COE. SMD, 10uH, 20MA, 10%, 0606	10uH	10%	0606	Murata	LQH321M10W02L	Yes	Yes
L13	2	IND. FIXED, 1.8UH, 50V, 10%, 100MA, 8-PIN, 0603, 0.85mm LEAD, 10%, 0603	1.8uH	10%	0603	TDK Corporation	MLC2012AL0603T	Yes	Yes
P1 P3 P7 P11 P13 P15 P16 P18 P21 P23 P28 P32 P47 P48 P49 P50 P51	16	CONN. HEADER, VERTICAL, 1x3, 3 PIN, 2.0MM PITCH, THROUGH HOLE	HDR3-1x3-P			3M	951103-8622-AR	Yes	Yes
P6	1	CONN. HEADER, HIGH SPEED, 2406, 52 SIG PINS, 0.635MM PITCH, 95.75 LEAD STYLE, ALIGNMENT PINS, 1 COND BUS PIN, HEAVY GOLD PLYG, RETENTION PINS	HDR5-2406-05-75-P (QMS)			Santec	QMS-026-05-75-H-D-A-R1	Yes	Yes
P9 P92	2	CONN. HEADER, VERTICAL, 2x4, 8 PIN, 100 PITCH, 25 ML, SQ POSTS	HDR8-2x4-P			Tyco Electronics	87227-4	Yes	Yes
P10 P12 P14 P22 P27 P28 P29 P30 P31 P36 P41 P42 P43 P44 P46 P48	16	CONN. HEADER, VERTICAL, 1x2, 2 PIN							