

<Parameter PRJ_Title not found>

Designator	Quantity	Description	Manufacturer	PartNumber	TI Supplied?	Notes
C1, C4, C10, C12, C23, C27, C59, C65, C66, C78, C85, C89, C90, C91, C92, C93, C94, C95, C96, C97, C100, C101, C102, C103, C104, C108, C109, C125, C139, C140, C158, C165, C166, C169, C170, C172, C175, C178, C179, C183, C186, C188, C244, C259, C263, C264, C265, C266, C268, C269, C270, C271, C273, C274, C275, C284, C285, C286, C288, C290, C291, C292, C293, C294, C295, C296, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315	84	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	MuRata	GRM155R71E103KA01D		
C2, C13, C24, C145, C159, C163, C193, C195, C197, C205, C206, C207, C208	13	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1H101JA01D		
C3, C11, C107, C146, C160, C164, C190, C223, C230, C243, C247, C262	12	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0402	MuRata	GRM155R60J106ME15D		C247 does not have a layout footprint; this needs hand rework
C5, C8, C14, C17, C41, C48, C55, C62, C131, C144, C167, C168, C171, C173, C174, C176, C177, C187	18	CAP, CERM, 22 pF, 50 V, +/- 1%, C0G/NP0, 0402	MuRata	GRM1555C1H220FA01D		
C6, C9, C15, C18	4	CAP, CERM, 3.3 pF, 50 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1H3R3CA01D		
C7, C16, C34, C46, C60, C79, C86, C142, C151	9	CAP, CERM, 0.1pF, 50 V, +/- 50%, C0G/NP0, 0402	MuRata	GRM1555C1HR10WA01D		
C19, C20, C21, C22, C25, C26, C29, C30, C33, C35, C36, C39, C40, C43, C47, C50, C51, C52, C53, C54, C57, C61, C64, C67, C68, C69, C70, C71, C72, C73, C76, C135	32	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0402	MuRata	GCM155R71H682KA55D		
C31, C37, C74, C80, C82, C87, C148, C161, C180, C182, C184, C185, C191, C192	14	CAP, CERM, 3.9 pF, 50 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1H3R9CA01D		
C32, C38, C149, C162, R66, R67, R69, R70	8	Inductor, Multilayer, Ceramic, 2.2 nH, 0.3 A, 0.16 ohm, SMD	Johanson Technology	L-07C2N2SV6T		
C42, C49, C56, C63, C134, C150	6	Inductor, Multilayer, Air Core, 3.9 nH, 0.75 A, 0.14 ohm, SMD	MuRata	LOG15HS3N9S02D		
C44, C58, C77, C84, C119, C141, C272	7	CAP, Tantalum Polymer, 10 uF, 10 V, +/- 20%, 0.08 ohm, 3216-18 SMD	Kemet	TS20A106M010ATE080		
C75, C81, C83, C88	4	CAP, CERM, 0.2pF, 50 V, +/- 50%, C0G/NP0, AEC-Q200 Grade 1, 0402	MuRata	GCQ1555C1HR20BB01D		
C98, C110, C111, C114, C156, C157	6	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	MuRata	GRM155R71E103KA01D		
C99, C106, C117, C123, C126, C128, C133, C136, C147, C189	10	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0603	TDK	C1808X7R1H224K090AB		
C105, C113, C120, C132, C202, C203, C215, C221, C222, C225, C233, C256, C258, C267, C287, C289	16	CAP, CERM, 1 uF, 6.3 V, +/- 10%, X7R, 0402	MuRata	GRM155R70J105KA12D		
C115, C116, C121, C122, C127, C130, C137, C138	8	Cap Tant Solid 220uF 6.3V C CASE 20% (6 X 3.2 X 2.5mm) SMD 6032-28 0.015 Ohm 105 C T/R	Kemet	TS20C227M006ATE015		Slightly different body size but should fit with pick-n-place
C118, C124, C129	3	CAP, CERM, 0.047 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0603	TDK	CGA3E3X7S2A473K080AB		
C143	1	CAP, CERM, 0.047 uF, 6.3 V, +/- 10%, X5R, 0402	MuRata	GRM155R60J473KA01D		
C152, R1, R20, R32, R85, R117	6	RES, 0, 5%, 0.063 W, 0402	Yageo America	RC0402JR-07R0L		
C153	1	CAP, CERM, 0.68 uF, 10 V, +/- 10%, X5R, 0402	MuRata	GRM155R61A684KE15D		
C154	1	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1E470JA01D		
C155	1	CAP, CERM, 3900 pF, 50 V, +/- 10%, X7R, 0402	MuRata	GRM155R71H392KA01D		
C181, C194	2	Cap Ceramic 22pF 10V C0H 2% SMD 0402 125°C T/R	KYOCERA AVX	04022K220B6STR		
C198	1	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0402	MuRata	GRM1555C1H471JA01D		
C199	1	CAP, CERM, 0.068 uF, 16 V, +/- 10%, X7R, 0402	MuRata	GRM155R71C683KA68D		
C200	1	CAP, CERM, 1000 pF, 10 V, +/- 5%, U2J, 0402	MuRata	GRM1557U1A192JA01D		
C204, C213, C220	3	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X7R, 0402	MuRata	GRM155R70J104KA01D		
FL3, FL4	2	Balun 1:2 - 20 GHz Lead-Free 3 mm 16 Lead QFN Package	MACOM	MABA-011125	TI Supplied	
J1, J2, J3, J4, J5, J6, J7, J8, J9	9	Conn SSMC RCP 0Hz to 12.4GHz 50Ohm Solder RA Thru-Hole Gold	Radiall	7010-1511-000		
J11	1	400 Position Connector High Density Array, Male Surface Mount Gold	Sartec	ASP-134487-01		
L1, L2, L13, R21, R25, R27, R46, R49, R122, R183	10	Shielded Multilayer Inductor 1uH +/-20% 1150mA 78mOhm AEC-Q200 SMD 0805	TDK	MLZ2012N1R0LTD25		L2 does not have a layout footprint on the board; this needs hand rework
L10, L18, R28, R50, R51, R52, R55, R68, R73, R74	10	120 Ohms @ 100MHz 1 Power Line Ferrite Bead 0603 (1608 Metric) 3A 30mOhm	Murata	BLM18KG121TN1D		
L19, L20, L21, L22	4	WE-XHMA SMT Power Inductor 2.2 uH 8 A 10.5mOhm	Würth Electronics	78439344022		Different body size; needs hand rework
L7, R48	2	Inductor, Ferrite, 1 uH, 0.7 A, 0.15 ohm, SMD	MuRata	LOM18PN1R0MFH		
R2, R3, R4, R5, R7, R8, R9, R37, R65, R75, R76, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R110, R111, R112, R113, R114, R115, R116	33	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW0402000020EDHP		
R6, R12, R14, R67, R88, R89, R109	7	RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	Panasonic	ERJ-2GEJ101X		
R15, R17, R113	3	RES, 10.0 k, 1%, 0.1 W, 0402	Panasonic	ERJ-2RKF1002X		
R19, R22, R29, R38, R41, R42, R45, R56, R57	9	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	Panasonic	ERJ-2GEJ104X		
R23, R40, R44	3	RES, 39.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040239K2FKED		
R24	1	RES, 44.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040244K2FKED		
R26, R33	2	120 Ohms @ 100 MHz 1 Power, Signal Line Ferrite Bead 0805 (2012 Metric) 4A 20mOhm	Laird	HI0805O121R-10		
R30, R31, R53, R54	4	Inductor, Multilayer, Air Core, 5.6 nH, 0.8 A, 0.13 ohm, AEC-Q200 Grade 1, SMD	MuRata	LOG15WZ5N6S02D		
R34	1	RES, 62 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040262K0JNED		
R35	1	RES, 3.30 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	Panasonic	ERJ-2RKF3301X		
R36	1	RES, 6.8 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040268K0JNED		
R39	1	RES, 88.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040288K7FKED		
R43	1	RES, 20 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040220K0JNED		
R58	1	RES, 470 k, 1%, 0.063 W, 0402	Yageo America	RC0402FR-07470KL		
R59	1	RES, 392, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW0402392RFKED		
R60	1	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040210K0JNED		
R61, R63	2	RES, 1.00 k, 1%, 0.1 W, 0402	Panasonic	ERJ-2RKF1001X		
R71	1	RES, 39 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040239K0JNED		
R72	1	RES, 620, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402620R0JNED		
R77, R78, R79, R80, R126, R128, R131, R134, R137, R140, R143	11	RES, 49.9, 1%, 0.063 W, 0402	Yageo America	RC0402FR-0749R9L		
R81	1	Res Thick Film 0402 18 Ohm 1% 0.1W(1/10W) +/-100ppm/C Molded SMD Automotive Punched T/R	Panasonic	ERJ-2RKF18R0X		
R82	1	RES, 68.1, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040268R1FKED		
R91, R92, R93	3	RES, 270, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402270R0JNED		
R123, R124, R125, R127, R129, R130, R132, R133, R135, R136, R138, R139, R141, R142	14	RES, 20, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW040220R0JNED		
R144, R145	2	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	Stackpole Electronics Inc	RMCF0402J110R0		
R146, R147	2	RES, 120, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	Vishay-Dale	CRCW0402120R0JNED		
U1, U124, U180	3	3.5-V to 30-V, 6-A Synchronous Step-Down Voltage Converter	Texas Instruments	TPS7H4010MRNPSEP	TI Supplied	
U2	1	Radiation-Hardened 3-V to 7-V Input 18-A Synchronous Buck Converter in Space Enhanced Plastic	Texas Instruments	TPS7H4003MDDWSEP	TI Supplied	
U3	1	Ultra low-noise JESD204B compliant clock jitter cleaner with dual loop	Texas Instruments	LMK04832SPAPSEP	TI Supplied	
U4	1	15-GHz Wideband PLLatinum™ RF Synthesizer With Phase Synchronization, RTC0048A (PVQFN-64)	Texas Instruments	LMX2694-SEP	TI Supplied	
U5, U6, U7, U8, U9, U11, U12	7	RF IC	Texas Instruments	TRF1208RPVR	TI Supplied	
U10	1	Quad-Channel RF Transceiver With Feedback Path, ABJ0400A (DSBGA-400)	Texas Instruments	AFE7900IABJ	TI Supplied	
U181	1	Single Output Fast Transient Response LDO, 1 A, Adjustable 1.2 to 20 V Output, 2.2 to 20 V Input, 6-pin SOT-223 (DCQ), -40 to 125 degC, Green (RoHS & no Sb/Br)	Texas Instruments	TPS73801DCOR	TI Supplied	
Y1	1	30.72 MHz TCXO Clipped Sine Wave Oscillator 3V - 8-SMD, No Load	Murata	XNCLH30M720THJA1P0		

Notes:
Substitutions made according to Alternate PartNumber must meet datasheet parameters, not just the Description specified.

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