

Parts list for the EV9942EF Evaluation Board

Issue 1 (13/04/2026)

Reference Designators	Description	Quantity
C10, C12	0603 Cer. Cap. 1500pF±5% 50V C0G	2
C11, C13	3.9nF PPS Capacitor, 0805, 16V, 2%	2
C15	Resistor 0402 0R 0.063W	1
C16, C24, C26, C37, C39	0402 Cer. Cap. 33pF±5% 25V C0G	5
C17, C20, C22, C25, C27, C38, C40	0402 Cer. Cap. 10nF±10% 16V X7R	7
C29, C31, C60	1nF / 1000pF 5% 50V 0603 X7R Cer. Cap.	3
C30, C53, C128, C131, C134	10nF SMD 0603 CAPACITOR X7R 10%	5
C41, C45, C138, C139, C140, C141, C142	100pF SMD 0603 CAPACITOR 5% C0G/NP0	7
C42, C59	0603 Ceramic Capacitor 100nF 25V X7R ±10%	2
C43, C126, C127, C129, C130, C132, C133	TAJA Tant. Cap. 10uF±10% 16V	7
C44, R18, R21, R44, R47, R48	10K SMD 0603 RESISTOR 1% 0.1W	6
C46, C49	0p5F SMD 0603 COG 50V +/- 0.25pF	2
C48, C55	0603 Ceramic Capacitor 2.2pF 50V C0G ±0.25pF	2
C52, C56	4.7pF SMD 0603 CAPACITOR 5%	2
C54	2.7pF 50V SMD 0603 Capacitor +/-0.25pF C0G/NP0	1
C57, R30	15pF SMD 0603 CAPACITOR 5%	2
C58	33pF SMD 0603 CAPACITOR 5%	1
C62, C64	22pF SMD 0603 CAPACITOR NPO 5%	2
C63	8.2pF SMD 0603 CAPACITOR +/-0.5pF	1
C65	0603 Ceramic Capacitor 22nF 50V X7R ±10%	1
C66	0603 Ceramic Capacitor 2200pF 50V C0G ±5%	1
C68	150nF 16V Cap SMD 0805 ± 10% X7R	1
C7	0402 Cer. Cap. 10pF±5% 25V C0G	1
C8, C19, C21, C23, C32	0402 Ceramic Capacitor 1.0nF 25V X7R ±10%	5
D3, D4, D5	SMV1705-079LF, Hyperabrupt Junction Tuning Varactr	3
FL1	446.0MHZ GSRF TA0381A SAW FILTER	1
FOOT1, FOOT2, FOOT3, FOOT4	Feet 12.7 x 12.7 black stick on, 5.7mm high	4
J1	Pin Header 0.1" 5+5 Way double row	1
J12	PCB terminal block - MKDSN 1,5/ 2 HT BK	1
J15	Pin Header 0.1in 5 way single row	1
J16	Pin Header 0.1" 10 + 10 way double row right angle	1
J2, J3, J5, J6, J7, J8	6GHz SMA-PCB MOUNT SKT	6
JP1, JP2, JP3, JP5	Pin Header 0.1" 2 way single row	4
JP6, JP7, JP8, JP9, JP10	Pin Header 0.1" 3 way single row	5
L2	27nH 5% Coilcraft 0603CS-27NXJL Gray	1
L21, L22, L23	F. BEAD 600 OHMS 2.5A KITAGAWA MLB-321611-0600PP	3
L3	82nH Coilcraft 0603CS-82NXJL Green	1
L4	15nH Coilcraft inductor, 1008CS-150XJL (Orange)	1
L5	100nH Coilcraft inductor, 1008CS-101XJL (Violet)	1
L6	Coilcraft 0603DC-8N2XGRW 8.2nH 2% Inductor	1
L7	39nH Coilcraft 0603CS-39NXJL Black	1
R10, R11, R23	Resistor 0402 10R 1% 0.063W (01X)	3
R16, R39	SMD 10R 1% 0.063W 0603	2
R26, R27, R74, R75, R76, R77, R78	100R SMD 0603 RESISTOR 1% 0.1W	7
R28, R32, R34	Resistor 18R 1% 0.063W 0603	3
R29	Resistor 330R 1% 0.063W 0603	1
R36	2.2 Ohm 2R2 1% 0.1W 0603 Thick Film Resistor	1
R4, R5, R6, R7, R25, R31, R37, R42, R69, R70	0R SMD 0603 1000pc reel	10
R41	2K2 SMD 0603 RESISTOR 1% 0.063W	1
R43	Resistor 390R 1% 0.063W 0603	1
R45	18k SMD 0603 Resistor 1% 0.1W	1
R72	100K SMD 0603 RESISTOR 1% 0.1W	1
R8, R12, R13, R22	Resistor 0402 3.3R 1% 0.063W (51Y)	4
R9	Resistor 0402 10k 1% 0.063W (01C)	1
RES1	Custom Co-axial resonator Tabbed 3mm 1050MHz +/-1%	1
TL5, TL8, TL9	Red 1.5mm testloop (1.0 mm hole)	3
TR1	BC846A NPN transistor	1
TR2, TR3	BFU520AR - Bipolar - RF Transistor NPN 10GHz	2
U1	Direct Conversion Receiver	1
U2	SMT VC-TCXO 19.2MHz GTXO-83V/JS or equivalent	1
U4, U5, U6	LP2985IM5X-3.3 Regulator 3v3	3

Issue History

Issue	Change	Date
1	Released for product launch	13/04/2026