

Bill of Materials for the LC01707PLFGEVB Evaluation Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Capacitor for NAGC stability	0.22uF50V	±10%	1608	Murata	GRM188B31E224KA87	Yes	Yes
C2	1	Capacitor for WAGC stability	0.01uF50V	±10%	1608	Murata	GRM188B11H103KA01	Yes	Yes
C3	1	Capacitor for VDD stability	22uF16V	±20%	1608	Suncon	16ME22HC	Yes	Yes
C4	1	Capacitor for LNA VDD stability	0.68uF50V	±10%	1608	Murata	GRM188B31E684KA87	Yes	Yes
C5	1	Capacitor for LNA VDD stability	0.022uF50V	±10%	1608	Murata	GRM188B11H223KA01	Yes	Yes
C6	1	Capacitor for LNA input	82pF50V	±5%	5*11 50	Murata	GRM1882C1H820JA01	Yes	Yes
C7	1	Capacitor for LNA input	18pF50V	±5%	1608	Murata	GRM1882C1H180JA01	Yes	Yes
C8	1	Capacitor for LNA input	33pF50V	±5%	1608	Murata	GRM1882C1H330JA01	Yes	Yes
C9	1	Capacitor for PLL loop filter	10pF50V	±5%	1608	Murata	GRM1882C1H100JA01	Yes	Yes
C10	1	Capacitor for PLL loop filter	100pF50V	±5%	1608	Murata	GRM1882C1H101JA01	Yes	Yes
C11	1	Capacitor for 1st MIX VDD stability	0.022uF50V	±10%	1608	Murata	GRM188B11H223KA01	Yes	Yes
C12	1	Capacitor for Local OSC VDD stability	0.022uF50V	±10%	1608	Murata	GRM188B11H223KA01	Yes	Yes
C13	1	Capacitor for X'tal OSC CL	18pF50V	±5%	1608	Murata	GRM1882C1H180JA01	Yes	Yes
C14	1	Capacitor for PLL LOGIC VDD stability	0.022uF50V	±10%	1608	Murata	GRM188B11H223KA01	Yes	Yes
C15	1	Capacitor for IF VDD stability	0.022uF50V	±10%	1608	Murata	GRM188B11H223KA01	No	Yes
C16	1	Capacitor for IF VDD stability	0.68uF50V	±10%	1608	Murata	GRM188B31E684KA87	Yes	Yes
C17	1	Capacitor for LPF output	1500pF / 50V	±5%	1608	Murata	GRM1882C1H152JA01	Yes	Yes
C18	1	Capacitor for LPF input	0.22uF / 50V	±10%	1608	Murata	GRM188B31E224KA87	Yes	Yes
C19	1	Capacitor for LPF input	220pF / 50V	±5%	1608	Murata	GRM1882C1H221JA01	Yes	Yes
C20	1	Capacitor for demodulator	56pF / 50V	±5%	1608	Murata	GRM1882C1H560JA01	Yes	Yes
R1	1	Resistor for PLL loop filter	390kΩ	±5%	1608	Rohm	MCR03EZP J394	Yes	Yes
R2	1	Resistor for X'tal bias	1MΩ	±5%	1608	Rohm	MCR03EZP J105	Yes	Yes
R3	1	Resistor for Smeter	15kΩ	±5%	1608	Rohm	MCR03EZP J153	Yes	Yes
R4	1	Resistor for LPF input	11kΩ	±5%	1608	Rohm	MCR03EZP J113	Yes	Yes
R5	1	Resistor for LPF input	11kΩ	±5%	1608	Rohm	MCR03EZP J113	Yes	Yes
L1	1	Inductor for LNA input	100nH	0.50%	2012	Sagami	C2012C10ND	Yes	Yes
L2	1	Inductor for Local oscillator 1	2.7nH	0.50%	2012	Sagami	C2012H2N7D	Yes	Yes
L3	1	Inductor for Local oscillator 2	2.7nH	0.50%	2012	Sagami	C2012H2N7D	Yes	Yes
X1	1	Crystal unit for Standard oscillation	7.2MHz	±20ppm	AT-49 / AT-41	KDS NDK	EXS00A-A01145 / A01146	No	Yes
IC1	1	FM tuner			VQFN44K	SANYO Semiconductor	LC01707PLF	No	Yes