



Bill of Materials for the ADD5045-915-1-GEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1N, C1P, C10, C12, CMP, CRX	6	Not Populated	NP					Yes	Yes
C2N, C2P	2	Capacitor	8.2pF	±0.1pF	0402	Murata	GRM1555C1H8R2BA01D	Yes	Yes
C4	1	Capacitor	100nF	±5%	0402	Murata	GRM155R71C104JA88D	Yes	Yes
C6, C9, C112	3	Capacitor	10nF	±10%	0402	Taiyo Yuden	587-HMK105B7103KVHFECT-ND	Yes	Yes
C11	1	Capacitor	39pF	±1%	0402	Murata	GRM1555C1H390FA01D	Yes	Yes
C101	1	Capacitor	200pF	±1%	0402	Murata	GCM1555C1H201FA16D	Yes	Yes
C102	1	Capacitor	4.7uF	±10%	0603	Murata	GRM188D71A475KE11D	Yes	Yes
CA1	1	Capacitor	1nF	±2%	0402	Murata	GRM1555C1H102GA01D	Yes	Yes
CA2	1	Capacitor	4.7uF	±20%	0402	Murata	GRM155R60J475ME87J	Yes	Yes
CCH	1	Capacitor	500pF	±10%	0402	AVX Corporation	04025C501KAT2A	Yes	Yes
CF1, CF2	2	Capacitor	3.9pF	±0.25pF	0402	Murata	GRM1555C1H3R9CA01D	Yes	Yes
CMN	1	Capacitor	3.6pF	±0.1pF	0402	Murata	GRM1555C1H3R6BA01D	Yes	Yes
CR1	1	Capacitor	4.3pF	±0.1pF	0402	Murata	GRM1555C1H4R3BA01D	Yes	Yes
CR2, CSDN	2	Capacitor	2.2pF	±0.1pF	0402	Murata	GRM1555C1H2R2BA01D	Yes	Yes
CSDP	1	Capacitor	6.2pF	±0.1pF	0402	Murata	GRM1555C1H6R2BA01D	Yes	Yes
CTX	1	Capacitor	100pF	±0.1pF	0402	Murata	GRM1555C1H2R2BA01D	Yes	
J1, J2	2	Connector on the back-side of the board	FE-2x12-SMT50-PL	±1%	0402	Murata	GRM1555C1H101FA01J	Yes	
L2N, L2P	2	Inductor	7.5nH	±2%	0402	Murata	LQW15AN7N5G00D	Yes	
LCHN, LCHP	2	Inductor	24nH	±2%	0402	Murata	LQW15AN24NG00D	Yes	
LF1, LF3	2	Inductor	9.1nH	±2%	0402	Murata	LQW15AN9N1G00D	Yes	
LF2	1	Inductor	15nH	±2%	0402	Murata	LQW15AN15NG00D	Yes	
LR1, LR2, LSDN, LSDP	4	Inductor	12nH	±2%	0402	Murata	LQW15AN12NG00D	Yes	
LSHN, LSHP	2	Inductor	91nH	±2%	0402	Murata	LQW15AN91NG00D	Yes	
R2, R7	2	Jumper	0OHM		0402	Yageo	RC0402JR-070RL	Yes	
R3, R12	2	Not Populated	NP					Yes	
R4	1	Resistor	33k	±5%	0402	Yageo	RC0402JR-0733KL	Yes	
R5	1	Resistor	68k	±5%	0402	Yageo	RC0402JR-0768KL	Yes	
R6	1	Resistor	100	±5%	0402	Yageo	RC0402JR-13100RL	Yes	
R8, R9, R10, R11	4	Not Populated	NP					Yes	
TP1, TP2, TP3, TP5, TP6, TP7, TP11, TP12, TP16, TP18	10	Test Point	TP06					Yes	
TP4	1	Test Point	GPADC2					Yes	
TP8	1	Test Point	GPADC1					Yes	

TP15	1	Test Point	TCXO_CTRL					Yes	
TP17	1	Test Point	FILT					Yes	
U1	1	Narrow-Band Sub-GHz RF Transceiver with integrated +23 dBm high power amplifier (PA)	AX5045			ON Semiconductor	AX5045-1-TW30	No	
X1	1	48MHz Temperature Compensated Crystal Oscillator	48 MHz TCXO			NDK America, Inc.	NT2016SA-48M-END4910A	Yes	
X2, X3	2	SMA 50 Ohm Straight Jack Receptacle - Surface Mount	SMA-SMD					Yes	