

Bill of Materials for the FAN65004B-GEVB Evaluation Board

Reference	Quantity	Description	Value	Voltage	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed
C1	1	Capacitor	47pF	50V	0603	AVX	06035C470KAT2A	YES
C2	1	Capacitor	1uF	50V	0603	Taiyo Yuden	UMK107AB7105KA-T	YES
C3	1	Capacitor	4.7uF	10V	1206	Murata	GRJ21BC72A105KE11L	YES
C4	1	Capacitor	47nF	10V	0603	Würth	885012206018	YES
C5,C10	2	Capacitor	0.47uF	100V	0805	Murata	GRM21BR72A474KA73L	YES
C6	1	Capacitor	47nF	50V	0603	Murata	GRM155R71H473KE14D	YES
C7	1	Capacitor	100pF	50V	0603	Yageo	CC0603KRX7R0BB104	YES
C8	1	Capacitor	4.7nF	50V	0603	Yageo	C0603C472K5RACTU	YES
C9	1	Capacitor	0.1uF	100V	0603	Yageo	CC0603KRX7R0BB104	YES
C11	1	Capacitor	DNP		0805			YES
C12,C13	2	Capacitor	10uF	100V	1210	AVX	22201C106MAT2A	YES
C14,C15,C29,C31	4	Capacitor	DNP		1210			YES
C16	1	Capacitor	0.47uF	100V	0805	Murata	GRM21BR72A474KA73L	YES
C17	1	Capacitor	10nF	100V	0603	TDK	C1608X7R2A103K080AA	YES
C18,C19,C20,C21,C22,C23,C24,C25,C26,C27,C28,C33,C34,C35	14	Capacitor	10uF	50V	1210	Taiyo Yuden	UMK325AB7106KM-T	YES
JP1	1		VIN_EN			TE Connectivity	87224-2	-
JP2	1		CCM/S			TE Connectivity	87224-2	-
JP3	1		CCM/M			TE Connectivity	87224-2	-
JP4	1		12V			TE Connectivity	87224-2	-
JP5	1		28V			TE Connectivity	87224-2	-
JP6	1		37.5V			TE Connectivity	87224-2	-
JP7	1		DCM/S			TE Connectivity	87224-2	-
JP8	1		DCM/M			TE Connectivity	87224-2	-
J1	1		VIN			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J2	1		VIN_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J3	1		EXTB			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J4	1		EXTB_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J5	1		PVCC			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J6	1		PVCC_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J7	1		VCC			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J8	1		VCC_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J9	1		EN			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J10	1		EN_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J11	1		SYN			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J12	1		SYN_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J13	1		PG			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J14	1		PG_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J15	1		MODE			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J16	1		MODE_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J17	1		VO			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J18	1		VO_GND			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J19	1		Loop-			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J20	1		Loop+			Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-
J21	1		VIN+			Keystone	575-4	-
J22	1		VO+			Keystone	575-4	-
J23	1		VIN-			Keystone	575-4	-
J24	1		VO-			Keystone	575-4	-
L1	1	Inductor	15uH			Würth	74439370150	YES

R1	1	Resistor	825k		0603	Yageo	RC0603FR-07825KL	YES
R2	1	Resistor	51.1k		0603	Panasonic	ERA-3AEB5112V	YES
R4,R8	2	Resistor	DNP		0603			YES
R5,R7	2	Resistor	1		0603	Yageo	RC0603FR-071RL	YES
R6,R16,R23	3	Resistor	100k		0603	Susumu	RR0816P-104-D	YES
R9,R15,R22	3	Resistor	1k		0603	Yageo	RC0603FR-071KL	YES
R10	1	Resistor	820		0603	Panasonic	ERA-3APB821V	YES
R11	1	Resistor	165k		0603	TE Connectivity	RN73C1J165KBTD	YES
R12	1	Resistor	28k		0603	TE Connectivity	RQ73C1J28KBTD	YES
R13,R21	2	Resistor	0		0603	Yageo	RC0603JR-070RL	YES
R14	1	Resistor	365		0603	Yageo	RC0603FR-07365RL	YES
R17	1	Resistor	3k		0603	Panasonic	ERA-3ARW302V	YES
R18	1	Resistor	2.4k		0603	Panasonic	ERA-3APB242V	YES
R19	1	Resistor	732		0603	TE Connectivity	RQ73C1J732RBTD	YES
R20	1	Resistor	453		0603	TE Connectivity	RQ73C1J453RBTD	YES
R24	1	Resistor	DNP		0805			YES
R25	1	Resistor	10		0603	Yageo	RC0603FR-0710RL	YES
R37	1	Resistor	37.4k		0603	Yageo	RC0603FR-0737K4L	YES
TP1	1		HVBIAS					-
TP2	1		HVBIAS_GND					-
TP3	1		BOOT					-
TP4	1		PH					-
TP5	1		B/P_GND					-
TP6	1		VCC					-
TP7	1		VCC_GND					-
TP8	1		SS					-
TP9	1		SS_GND					-
TP10	1		COMP					-
TP11	1		COMP_GND					-
TP12	1		FB					-
TP13	1		FB_GND					-
TP14	1		LG					-
TP15	1		LG_GND					-
TP16	1		SW					-
TP17	1		SW_GND					-
U1	1		FAN65004B	65V	MLP6x6	onsemi	FAN65	NO