ON Semiconductor®

Bill of Materials for the FAN65004B-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Capacitor	47pF	50V	603	AVX	06035C470JAT2A	YES	YES
C2	1	Capacitor	1uF	10V	603	Murata	GRM188R71A105KA61D	YES	YES
C3	1	Capacitor	4.7uF	10V	1206	Murata	GRM31CR71A475KA01L	YES	YES
C4	1	Capacitor	22nF	50V	603	Murata	GRM188R71H223KA01D	YES	YES
C5,C10,C16	3	Capacitor	0.47uF	100V	805	Murata	GRM21BR72A474KA73L	YES	YES
C6,C9	2	Capacitor	100nF	25V	603	Murata	GRM188R71E104KA01D	YES	YES
C7	1	Capacitor	1.8nF	50V	603	Murata	GRM188R71H182KA01D	YES	YES
C8	1	Capacitor	3.3nF	50V	603	Murata	GRM188R71H332KA01D	YES	YES
C11	1	Capacitor	Open	100-200V	805			YES	YES
C12,C13	2	Capacitor	10uF	100V	2220	AVX	22201C106MAT2A	YES	YES
C17	1	Capacitor	10nF	100V	603	TDK	C1608X7R2A103K080AA	YES	YES
C21,C22,C23,C24	10	Capacitor	10uF	50V	1210	Taiyo Yuden	UMK325AB7106KM-T	YES	YES
C28, C14, C15	3	Capacitor	Open	35V				-	YES
JP1	1	jumper	VIN_EN		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP2	1	jumper	CCM/S		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP3	1	jumper	CCM/M		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP4	1	jumper	V2		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP5	1	jumper	V3		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP6	1	jumper	V4		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP7	1	jumper	DCM/S		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
JP8	1	jumper	DCM/M		HEADER .100 SINGL STR 2PO	Amphenol	77311-818-02LF	-	YES
J1	1	jumper	VIN		SMALL RED TERM	Kobiconn	151-207A-RC	-	YES
J2	1	jumper	VIN_GND		SMALL BLK TERM	Kobiconn	151-203-RC	-	YES
J3	1	jumper	EXTB					-	YES
J4	1	jumper	EXTB_GND					-	YES
J5	1	jumper	PVCC					-	YES
J6	1	jumper	PVCC_GND		0.043"pin	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-	YES
J7	1	jumper	VCC					-	YES
J8	1	jumper	VCC_GND					-	YES
J9	1	jumper	EN		0.043"pin	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	-	YES
J10	1	jumper	EN_GND					-	YES
J11	1	jumper	SYN					YES	YES
J12	1	jumper	SYN_GND		0.043"pin	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J13	1	jumper	PG					YES	YES
J14	1	jumper	PG_GND					YES	YES
J15	1	jumper	MODE					YES	YES
J16	1	jumper	MODE_GND					YES	YES
J17	1	jumper	VO		SMALL RED TERM	Kobiconn	151-207A-RC	YES	YES
J18	1	jumper	VO_GND		SMALL BLK TERM	Kobiconn	151-203-RC	YES	YES
J19	1	jumper	Loop-		0.043"pin	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J20	1	jumper	Loop+		0.043"pin	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J21	1	jumper	VIN+		JACK	Keystone	575-4	YES	YES
J22	1	jumper	VO+		JACK	Keystone	575-4	YES	YES
J23	1	jumper	VIN-		JACK	Keystone	575-4	YES	YES
J24	1	jumper	VO-		JACK	Keystone	575-4	YES	YES
L1	1	Inductor	22uH		0.867"x0.748"	Pulse	PA4343.223NLT	YES	YES
R1	1	resistor	825k		603	Yageo	RC0603FR-07825KL	YES	YES
R2	1	resistor	51.1k		603	Yageo	RC0603FR-0751K1L	YES	YES
R3	1	resistor	37.4k		603	Yageo	RC0603FR-0737K4L	YES	YES
R4,R8,R24	3	resistor	Open		603			YES	YES

R5,R7,R21	3	resistor	1		603	Yageo	RC0603FR-071RL	YES	YES
R6,R16,R23	3	resistor	100k		603	Yageo	RC0603FR-07100KL	YES	YES
R9	1	resistor	680		603	Yageo	RC0603FR-07680RL	YES	YES
R10	1	resistor	6.8		603	Yageo	RC0603FR-076R81L	YES	YES
R11	1	resistor	118k		603	Yageo	RC0603FR-07118KL	YES	YES
R12	1	resistor	20k		603	Yageo	RC0603FR-0720KL	YES	YES
R13	1	resistor	2		603	Yageo	AC0603FR-072RL	YES	YES
R14	1	resistor	280		603	Yageo	RC0603FR-07280RL	YES	YES
R15,R22	2	resistor	1k		603	Yageo	RC0603FR-071KL	YES	YES
R17	1	resistor	931		603	Yageo	RC0603FR-07931RL	YES	YES
R18	1	resistor	3.32k		603	Yageo	RC0603FR-073K32L	YES	YES
R19	1	resistor	825		603	Yageo	RC0603FR-07825RL	YES	YES
R20	1	resistor	690		603	Yageo	RT0603BRD07690RL	YES	YES
R25	1	resistor	10		603	Yageo	RC0603FR-0710RL	YES	YES
TP1	1	-	HVBIAS					-	YES
TP2	1	-	HVBIAS_GND					-	YES
TP3	1	-	BOOT					-	YES
TP4	1	-	PH					-	YES
TP5	1	-	B/P_GND					-	YES
TP6	1	-	VCC					-	YES
TP7	1	-	VCC_GND					-	YES
TP8	1	-	SS					-	YES
TP9	1	-	SS_GND					-	YES
TP10	1	-	COMP					-	YES
TP11	1	-	COMP_GND					-	YES
TP12	1	-	FB					-	YES
TP13	1	-	FB_GND					-	YES
TP14	1	-	LG					-	YES
TP15	1	-	LG_GND					-	YES
TP16	1	-	SW		HEADER .100 SINGL STR 1PO	Amphenol	77311-818-01LF	-	YES
TP17	1	-	SW_GND					-	YES
U1	1	-	FAN65004B	65V	MLP6x6	ON SEMICONDUCTOR	FAN65004B	-	YES