



Bill of Materials for the STK672-442BNGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	2-phase Stepper Motor Drive	-	-	pin type	ON Semiconductor	STK672-442BN-E	No	Yes
R1	1	Vref voltage setting(FIX side)	750ohm	1%	1/4w	AKAHANE	RN14S750FK	Yes	Yes
R2	1	Vref voltage setting	below 500ohm	1%	1/4w	AKAHANE	RN14S***FK	Yes	Yes
R3	1	LED current limiting resistor	470ohm	5%	1/4w	AKAHANE	RN14S471JK	Yes	Yes
R4 to R10	7	Pull-up Resistor	20kohm	5%	1/4w	AKAHANE	RN14S203JK	Yes	Yes
C1	1	Capacitor for Vcc stability	220uF / 50V	20%	lead type	SUNCON	50ME220CA	Yes	Yes
C2	1	Capacitor for Vref stability	0.1uF / 50V	10%	lead type	MURATA	RCER71H104K0A2H03B	Yes	Yes
C3	1	Capacitor for VDD stability	10uF / 10V	20%	lead type	SUNCON	10ME10CA	Yes	Yes
C4 to C10	7	Capacitor for input noise reduction	470to 1000pF / 50V	10%	lead type	MURATA	RCE5C1H***J0A2H03B	Yes	Yes
LED	1	LED for FAULT detection	-	-	-	RS	-	Yes	Yes
Connector	1	for Motor connect	6pin	-	lead type	MOLEX	5045-06A	Yes	Yes
JP1 to JP03	3	Jumper	10mm	-	lead type	Mac-Eight	JR-4	Yes	Yes
JP04	N.C	Jumper	10mm	-	lead type	Mac-Eight	JR-4	Yes	Yes
JP05 to 08	4	Jumper	10mm	-	lead type	Mac-Eight	JR-4	Yes	Yes
JP09	1	Jumper	13mm	-	lead type	Mac-Eight	JR-5	Yes	Yes
JP10 to JP16	7	Jumper	10mm	-	lead type	Mac-Eight	JR-4	Yes	Yes
JP17	N.C	Jumper	5mm	-	lead type	Mac-Eight	JR-2	Yes	Yes
JP18	1	Jumper	17.5mm	-	lead type	Mac-Eight	JR-7	Yes	Yes
JP19,JP20	2	Jumper	10mm	-	lead type	Mac-Eight	JR-4	Yes	Yes
JP21,JP22	N.C	Jumper	10mm	-	lead type	Mac-Eight	JR-4	Yes	Yes
Test pin (Vcc,VDD,GND,other)	7	Test Point	-	-	-	Mac-Eight	ST-1-3	Yes	Yes
Check Pin (ENABLE,RESE TB,other)	1	Check Point	-	-	-	HIROSE ELECTRIC CO.,LTD	MDF7B-xxx-2.54DSA	Yes	Yes