

ON Semiconductor



Bill of Materials for the AM305421R1DBGVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Stepper Motor Driver	-	-	NQFP-32	ON Semiconductor	AMIS30542C5421G	No	Yes
C1	1	Low ESR, Aluminium Electrolytic Capacitor	100uF, 50V	±20%	10.00mm x 10.20mm	Panasonic - ECG	EEE-TG1H101UP	Yes	Yes
C2, C3	2	Ceramic Multilayer Capacitor	100nF, 50V, X7R	±10%	0603	Panasonic - ECG	ECJ-1VB1H104K	Yes	Yes
C4	1	Ceramic Multilayer Capacitor	220nF, 10V, X7R	±10%	0603	Kemet	C0603C224K3RACTU	Yes	Yes
C6, C7	2	Ceramic Multilayer Capacitor	220nF, 25V, X7R	±10%	0603	Kemet	C0603C224K3RACTU	Yes	Yes
R1	1	Thick Film Resistor	0Ω, 1/16W	±5%	0402	Vishay/Dale	CRCW04020000Z0ED	Yes	Yes
R2	1	Thick Film Resistor	100Ω, 1/16W	±1%	0402	Vishay/Dale	CRCW0402100RFKED	Yes	Yes
R3	1	Thick Film Resistor	0Ω, 1/16W	±5%	1206	Vishay/Dale	CRCW12060000Z0EA	Yes	Yes
CON1	1	PLUG, VERTICAL, 2ROW, 18WAY	-	-	5.96mm x 23.55mm	Harwin	M80-8541842	Yes	Yes
CON2	1	PLUG, VERTICAL, 2ROW, 14WAY	-	-	5.96mm x 19.55mm	Harwin	M80-8541442	Yes	Yes