



Bill of Materials for the AMIS30422DBGEBV Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C9	2	Aluminium Electrolytic, LOW ESR (see application note)	270uF, 35V, (-40/+125) C	±20%	10 x 10,2	Panasonic	EEHZC1V271P	Yes	Yes
C2, C3	2	Ceramic Multilayer X7R	220nF, 25V, (-40/+125) C	±10%	0603	TDK	C1608X7R1E224K080AC	Yes	Yes
C4, C10	2	Ceramic Multilayer X7R	100nF, 50V, (-40/+125) C	±10%	0603	TDK	C1608X7R1H104K080AA	Yes	Yes
C5	1	Ceramic Multilayer X7R	100nF, 10V, (-40/+125) C	±10%	0402	TDK	C1005X7R1A104K050BB	Yes	Yes
C8	1	Ceramic Multilayer X7R	4.7uF, 25V, (-40/+125) C	±20%	1206	TDK	C3216X7R1E475M160AC	Yes	Yes
R1, R2	2	Thick Film Resistor	33 mΩ, 5W, (-40/+125) C	±1%	2818	Vishay	WSH2818R0330FEA	Yes	Yes
R4	0	Do not stuff	0,063W	±5%	0402	NA	NA	--	Yes
R3	1	Thick Film Resistor	100Ω, 0.063W, (-40/+125) C	±1%	0402	Various	Various	Yes	Yes
R12 ... R14, R16 ... R20	8	Thick Film Resistor	10Ω, 0.063W, (-40/+125) C	±5%	0402	Various	Various	Yes	Yes
IC1	1	AMIS-30422	-	-	NQFP-48	ON Semiconductor	AMIS-30422	No	Yes
T1 ... T8	8	NTD4815N	-	-	DPAK	ON Semiconductor	NTD4815N	No	Yes
D1	1	MBRD1045T4G	-	-	DPAK	ON Semiconductor	MBRD1045T4G	No	Yes
CON1	1	DIL PC plug (9+9)	-	-	See datasheet	Harwin	M80-8541842	Yes, Check datasheet for maximum temperature	Yes
CON2	1	DIL PC plug (7+7)	-	-	See datasheet	Harwin	M80-8541442	Yes, Check datasheet for maximum temperature	Yes
CON3a, CON3b, CON4	3	Connector	-	-	See datasheet	Würth Elektronik	691 101 710 002	Yes	Yes