



### Bill of Materials for the EVBUM2872 Evaluation Board

Designator (Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2	2	Capacitor, Ceramic, X7R	10 pF, 50 V	±10%	SMD 2012	Yageo	CC0805KRNPO9BN100	Yes	Yes
C3, C6, C9, C10	4	Capacitor, Ceramic, X7R	10 uF, 50 V	±10%	SMD 3216	Yageo	CC1206KKX5R9BB106	Yes	Yes
C4	1	Capacitor, Ceramic, X7R	0.22 uF, 50 V	±10%	SMD 2012	Yageo	CC0805KRNPO9BN224	Yes	Yes
C5	0	Capacitor, Ceramic, X7R	1 nF, 50 V (DNP)	±10%	SMD 2012	Yageo	CC0805KRNPO9BN102	Yes	Yes
C7	1	Capacitor, Ceramic, X7R	4.7 uF, 50 V	±10%	SMD 3216	Yageo	CC1206KKX5R9BB475	Yes	Yes
C8	1	Capacitor, Ceramic, X7R (For only used NCP51152xB)	470 nF, 50 V	±10%	SMD 2012	Yageo	CC0805KRNPO9BN474	Yes	Yes
D1	1	Fast Recovery Diode (For only used NCP51152xB)	50V		DSN-2			Yes	Yes
J1, J3	2	BNC Connector			SMB	Johnson / Cinch Connectivity	131-3701-266	Yes	Yes
J2, J6	2	Connector	2 Pin			CAMDEN	CTB3051/3BK	Yes	Yes
J4, J7	2	Connector	3 Pin			CAMDEN	CTB3051/2BK	Yes	Yes
J8, J9	2	Header	3 Pin		Pitch 2.54mm	JINLING	PH01(2,54)-SS03P	Yes	Yes
J5, J10	0	Connector	DNP					Yes	Yes
M1	0	Power Switch (DNP)						Yes	Yes
			For only Type-A		TO-247-3L	onsemi		Yes	Yes
			For only Type-B		TO-247-4L	onsemi	MCR10EZHF2R20	Yes	Yes
			For only Type-C		TO-263-7L	onsemi		Yes	Yes
R1, R2	2	Resistors	51 Ω	±1%	SMD 2012	Rohm		Yes	Yes
R3, R5	2	Resistors	3.3 Ω	±1%	SMD 2012	Rohm	KTR10EZPF3R30	Yes	Yes
R4	1	Resistors	10 Ω	±1%	SMD 2012	Rohm	ESR10EZPF5R10	Yes	Yes
R6	1	Resistor	10 kΩ	±1%	SMD 2012	Rohm	ESR10EZPF1002	Yes	Yes
U1	1	Gate driver	NCP51752		8 SOIC-NB	onsemi	NCP51752CDDR2G	NO	Yes
EVBs Configuration Setting for Variant A or B									
R3		3.3 Ω for NCP51152xA variant, and DNP for NCP51152xB variant							
R5		DNP for NCP51152xA variant, and 3.3 Ω for NCP51152xB variant							
R7		DNP for NCP51152xA variant, and 0 Ω for NCP51152xB variant							
R8		0 Ω for NCP51152xA variant, and DNP for NCP51152xB variant							
C8		DNP for NCP51152xA variant, and at least 470 nF for NCP51152xB variant							