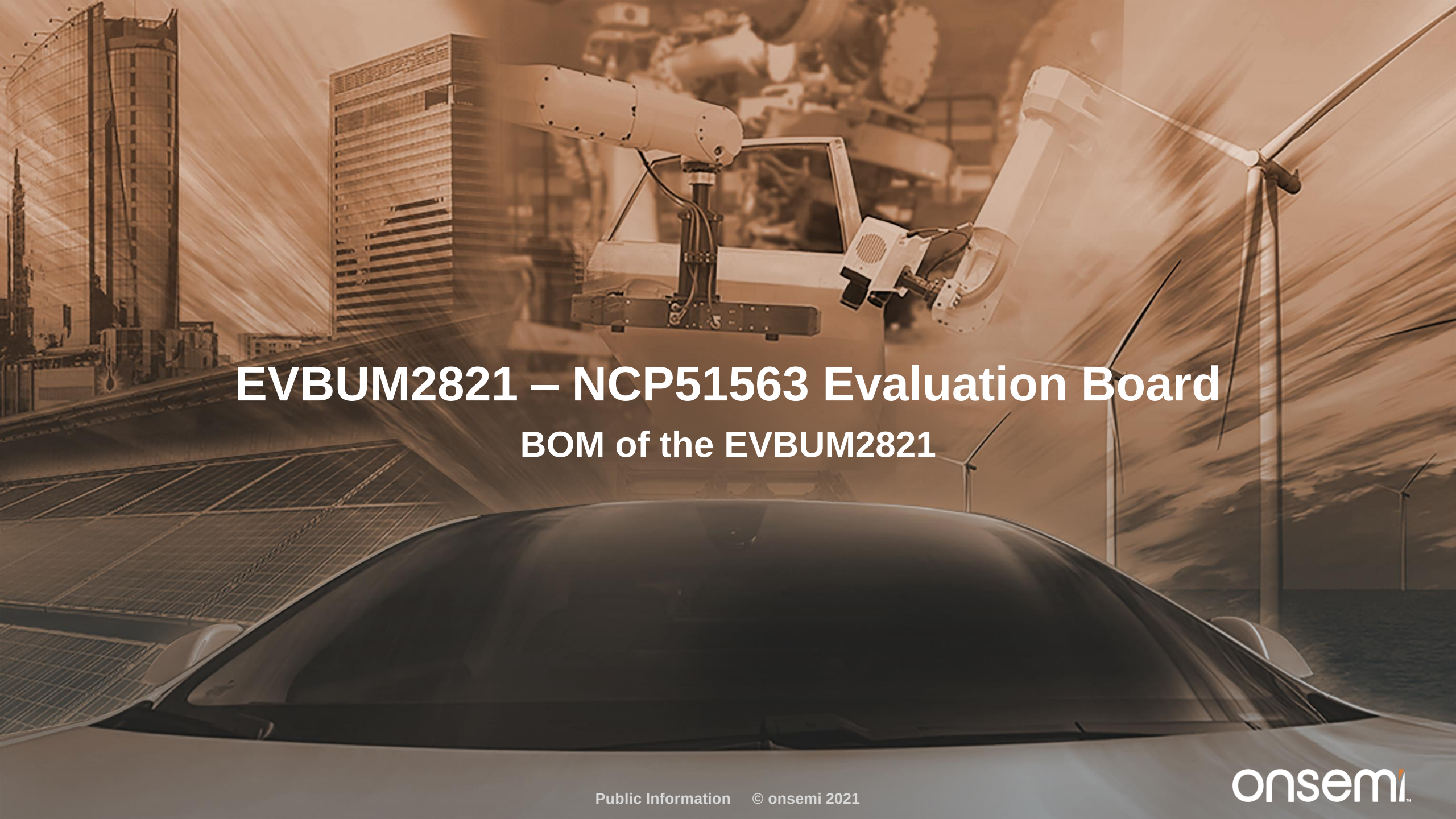

EVBUM2821 – NCP51563 Evaluation Board

BOM of the EVBUM2821

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EVBUM2821 - Bill of Material

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer part Number
C1, C2	2	Capacitor, Ceramic, X7R	10 pF, 50 V	±10%	SMD 2012	Yageo	CC0805KRNPO9BN100
C3 , C6, C8, C10	4	Capacitor, Ceramic, X7R	0.22 uF, 50 V	±10%	SMD 3216	Yageo	CC1206KKX7R9BB224
C7	3	Capacitor, Ceramic, X7R	10 uF, 16 V	±10%	SMD 3216	Yageo	CC1206KRX7R7BB104
C4, C9	2	Capacitor, Ceramic, X7R	10 uF, 50 V	±10%	SMD 3216	Yageo	CC1206KKX5R9BB106
C5, C11	0	Capacitor, Ceramic, X7R	1 nF, 50 V (DPN)	±10%	SMD 2012	Yageo	CC0805KRNPO9BN102
C12	1	Capacitor, Ceramic, X7R	2.2 nF, 50 V	±10%	SMD 3216	Yageo	CC1206KRX7R9BB222
C13, C14, C15, C16	4	Capacitor, Ceramic, X7R	1 uF, 50 V	±10%	SMD 3216	Yageo	CC1206KKX5R9BB105
D1	0	Fast Recovery Diode	1000V, 1A (DNP)		SOD-123	onsemi	US1MFA
ZD1, ZD2	2	Zener Diode	5.1V, 500mW		SOD-123	onsemi	MMSZ5V1T1G
J1	1	Connector	4 Pin		pitch 5.08mm	Adam Tech	2057-EB21A-04-D-ND
J2,J9, J13	3	Connector	2 Pin		pitch 5.08mm	Adam Tech	2057-EB21A-02-D-ND
J3, J10	2	BNC Connector			SMB	Johnson / Cinch Connectivity Solutions	131-3701-266
J4, J5, J15	3	Header	3 Pin		PItch 2.54mm	JINLING	PH01(2.54)-SS40P-11.5MM
J11, J16	2	Header	2 × 2 Pin		PItch 2.54mm	JINLING	PH01(2.54)-DS80P-20MM
J6,J7,J8, J12	0	Connector	DNP				
M1, M2	0	Power Switch	DNP		D2PAK-7L		
R1, R3	0	Resistors	51 Ω (DPN)	±1%	SMD 2012	Rohm	ESR10EZPF51R0
R2	1	Resistors	5.1 Ω	±1%	SMD 2012	Rohm	MCR10EZHFL5R10
R4,R6, R8	3	Resistors	0 Ω		SMD 2012	Rohm	TRR10EZPJ000
R5 ,R9	2	Resistor	4.7 Ω	±1%	SMD 2012	Rohm	KTR10EZPF4R70
R7, R10	2	Resistor	10 kΩ	±1%	SMD 2012	Rohm	ESR10EZPF1002
R11, R12	2	Resistor	4.7 kΩ	±1%	SMD 2012	Rohm	KTR10EZPF4701
R13	1	Resistor	100 kΩ	±1%	SMD 3216	Rohm	ESR18EZPF1003
U1	1	Gate driver	NCP51563		14 pin SOIC-WB	onsemi	NCP51563CADWR2G

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