

# BM2P016T-EVK-004 Parts list



Part Reference	Qty.	Type	Value	Description	Part Number	Manufacture	Configuration mm (inch)
C1	1	X2 Capacitor	0.22μF	300Vac, ±20%	890 334 025 027 CS	Wurth	-
C2,C3,C4, C5	4	Y1 Capacitor	2200pF	Y1 capacitor	DE1E3RA222MJ4BP01F	Murata	-
C6	1	Electrolytic	100μF	450V, ±20%	450BXW100MEFR18X30	Rubycon	18mmΦX30mm
C7	1	Ceramic	100pF	1kV, X7R, ±20%	RDE5C3A101J2M1H03A	Murata	-
C8	0	-	-	25V, ±20%	-	-	-
C9	1	Ceramic	1000pF	100V, X7R, ±20%	HMK107B7102MA-T	Taiyo Yuden	1608 (0603)
C10,C14	2	Ceramic	10μF	35V, X7R, ±20%	GMK316AB7106ML-TR	Taiyo Yuden	3216 (1206)
C11	1	Ceramic	10nF	630V, X7R, ±10%	SMK316B7103KF-T	Taiyo Yuden	3216 (1206)
C12	1	Electrolytic	1000μF	35V, ±20%	UPA1V102MPD	Nichicon	12.5mmΦX20mm
C13	0	-	-	-	-	-	-
C15	1	Ceramic	680pF	630V, COG, ±10%	GRM31B5C2J681FW01L	Murata	3216 (1206)
C16	1	Ceramic	22nF	100V, X7R, ±10%	HMK107B7223KA-T	Taiyo Yuden	1608 (0603)
CN1	1	Connector	3pin	-	B3P-NV	JST	-
CN2	1	Probe(Write)	-	-	-	-	-
CN3	1	Probe(Black)	-	-	-	-	-
D1	1	FRD	0.8A	700V	RFN1LAM7S	ROHM	PMDTM
D2	1	RD	0.5A	200V	RRE02VSM4S	ROHM	TUMD2SM
D3	1	FRD	20A	300V	RF2001T3DNZ	ROHM	TO-220
D4	0	-	-	-	-	-	-
DB1	1	Bridge Diode	2A	600V	D2SBA60	Shindengen	SIP4
F1	1	Fuse	1.6A	300V	36911600000	Littelfuse	-
HS1,HS2	2	Heat Sink	-	22.9°C/W	IC-1625-STL	Sankyo Thermotec	-
-	2	Skrew	M3	M3	-	-	-
IC1	1	AC/DC Converter	-	650V	BM2P016T	ROHM	TO-220-7
IC2	1	Shunt Regulator	-	-	TL431BIDBZT	TI	SOT-23-3
LF1	1	Line Filter	13mH	1A	XF1482Y	Alpha Trans	-
LF2	1	Line Filter	60μH	1A	LF1246Y	Alpha Trans	-
PC1	1	Optocoupler	-	5kV	LTV-817-B	LiteOn	DIP4
R1,R2,R3	3	Resistor	220kΩ	0.25W, ±5%	MCR18EZPJ224	ROHM	3216 (1206)
R4,R5	2	Resistor	0.56Ω	0.25W, ±1%	MCR18EZHFLR560	ROHM	3216 (1206)
R6	1	Resistor	10Ω	0.25W, ±5%	MCR18EZPJ100	ROHM	3216 (1206)
R7,R9	2	Resistor	10Ω	0.25W, ±5%	MCR18EZPJ100	ROHM	3216 (1206)
R8	1	Resistor	47kΩ	2W, ±2%	ERG2SJ473	Panasonic	-
R10	1	Resistor	82kΩ	0.1W, ±1%	MCR03EZPFX8202	ROHM	1608 (0603)
R11	1	Resistor	4.7kΩ	0.1W, ±1%	MCR03EZPFX4701	ROHM	1608 (0603)
R12,R15	2	Resistor	10kΩ	0.1W, ±1%	MCR03EZPFX1002	ROHM	1608 (0603)
R13,R14	2	Resistor	1kΩ	0.1W, ±5%	MCR03EZPJ102	ROHM	1608 (0603)
T1	1	Transformer	-	Bobin:EER2828-10pin Core:EER28/28	XE2235Y	Alpha Trans	-
ZNR1	1	Varistor	-	300Vac, 423Vmin, 400A	V470ZA05P	Littelfuse	-

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