

BM2P016T-EVK-002 Parts list

Part Reference	Qty.	Type	Value	Description	Part Number	Manufacture	Configuration mm (inch)
C1	1	X2 Capacitor	0.1μF	300Vac, ±20%	890 334 025 027C S	Würth	-
C2,C3,C4 C5	4	Y1 Capacitor	2200pF	Y1 capacitor	DE1E3KX222MB4BP01F	Murata	-
C6	1	Electrolytic	47μF	450V, ±20%	450BXW47MEFR18x20	Rubycon	18mmΦX20mm
C7	1	Ceramic	47pF	1000V, X7R, ±10%	RDE5C3A470J2K1H03B	Murata	-
C8	0	Ceramic	NC	-	N.C.	Taiyo Yuden	1608 (0603)
C9	1	Ceramic	1000pF	100V, X7R, ±10%	HMK107B7102KA-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%	GRM31AR72J103KW01	Murata	3216 (1206)
C12	1	Electrolytic	1000μF	35V, ±20%	UPA1V102MPD	Nichicon	12.5mmΦX20mm
C15	1	Ceramic	680pF	1000V, X7R, ±10%	GRM31BR73A681KW01	Murata	3216 (1206)
C16	1	Ceramic	3300pF	100V, X7R, ±10%	HMK107B7332KA-T	Taiyo Yuden	DIP7
CN1	1	Connector	3pin	5mm pitch	B3P-NV	JST	-
DB1	1	Bridge	1A	600V	S1NB60-7062	Shindengen	-
D1	1	FRD	0.2A	800V	RFU02VSM8S	ROHM	TUMD2M
D2	1	FRD	0.5A	200V	RF05VAM2S	ROHM	TUMD2M
D3	1	FRD	6A	200V	RF601T2DNZ	ROHM	TO-220
F1	1	Fuse	1.6A	1.6A 300V	36911600000	Littelfuse	-
HS1,HS2	2	Heat Sink	-	22.9°C/W	IC-1625-STL	Sankyo Thermotec	-
-	2	Skrew	M3	M3	SEMS-SCREW-P4-3X8	TOMOHO	-
IC1	1	AC/DC Converter	-	650V	BM2P016T-Z	ROHM	TO220-7
IC2	1	Shunt Regulator	120kΩ	2W, 700V, ±2%	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%	MCR18EZIPJ224	ROHM	3216 (1206)
R4,R5	2	Resistor	0.82Ω	0.25W, ±1%	MCR18EZHFLR820	ROHM	3216 (1206)
R6,R7,R9	3	Resistor	10Ω	0.25W, ±5%	MCR18EZIPJ100	ROHM	3216 (1206)
R8	1	Resistor	47kΩ	2W, 700V, ±2%	ERG2SJ473	Panasonic	-
R10	1	Resistor	47kΩ	0.1W, ±1%	MCR03EZIPFX4702	ROHM	1608 (0603)
R11	1	Resistor	3.3kΩ	0.1W, ±1%	MCR03EZIPFX3302	ROHM	1608 (0603)
R12	1	Resistor	10kΩ	0.1W, ±1%	MCR03EZIPFX1002	ROHM	1608 (0603)
R13,R14	2	Resistor	1kΩ	0.1W, ±5%	MCR03EZIPJ102	ROHM	1608 (0603)
R15	1	Resistor	5.1kΩ	0.1W, ±5%	MCR03EZIPJ512	ROHM	1608 (0603)
T1	1	Transformer	-	Bobin:EI-2506, Core:EE25/20	XE2186A	Alpha Trans	-
ZNR1	1	Varistor	-	300Vac, 423Vmin, 400A	V470ZA05P	Littelfuse	5mmΦ Disc

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