

BM2P016T-EVK-001 Parts list

Part Reference	Qty.	Type	Value	Description	Part Number	Manufacture	Configuration mm (inch)
C1	1	Film	0.22 μ F	275Vac, \pm 10%	LE224	OKAYA	-
C2,C3,C4, C5	4	Ceramic	2200pF	300Vac, \pm 20%	DE1E3KX222MB4BP01F	Murata	-
C6	1	Electrolytic	47 μ F	450V, \pm 20%	450LLE47MEFC18x25	Rubycon	-
C7	1	Ceramic	47pF	1000V, X7R, \pm 10%	RDER73A470J2K1H03B	Murata	-
C8	1	Ceramic	1000pF	100V, X7R, \pm 20%	HMK107B7102MA-T	Taiyo Yuden	1608 (0603)
C9	1	Ceramic	10 μ F	35V, X7R, \pm 20%	GMK316AB7106ML-TR	Taiyo Yuden	3216 (1206)
C11	1	Ceramic	2200pF	1000V, X7R, \pm 10%	RDER73A222K2K1H03B	Murata	-
C12	1	Electrolytic	1000 μ F	35V, \pm 20%	UPA1V102MPD	Nichicon	-
C13	1	Ceramic	10 μ F	35V X7R, \pm 20%	GMK316AB7106ML-TR	Taiyo Yuden	3216 (1206)
C14	1	Ceramic	220pF	630V C0G, \pm 5%	GRM31A5C2J221J	Murata	3216 (1206)
C15	1	Ceramic	0.1 μ F	100V, X7R, \pm 20%	HMK107B7104MA-T	Taiyo Yuden	1608 (0603)
ZNR1	1	Varistor	-	470V, 400A	V470ZA05P	Littelfuse	-
F1	1	Fuse	1A	250V	39211000000	Littelfuse	-
LF1	1	Line Filter	13mH	1A	FT20-087	Alpha Trans	-
LF2	1	Line Filter	60 μ H	1A	LF1246Y	Alpha Trans	-
T1	1	Transformer	-	Bobin:EI-2506, Core:EE25/20	XE2096	Alpha Trans	-
PC1	1	Optocoupler	-	5kV	PC817	SHARP	-
IC1	1	AC/DC Converter	-	-	BM2P016T-Z	ROHM	DIP7
IC2	1	Shunt Regulator	-	\pm 0.5%	TL431BIDBZT	TI	SOT-23-3
DB1	1	Bridge	1A	600V	S1NB60-7062	Shindengen	-
D1	1	FRD	0.5A	200V	RF05VAM2S	ROHM	TUMD2M
D2	1	FRD	0.2A	800V	RFU02VSM8S	ROHM	TUMD2SM
D3	1	FRD	6A	200V	RFN6BM2D	ROHM	TO-252
R1,R2,R3	3	Resistor	220k Ω	0.25W, 200V, \pm 5%	MCR18EZPJ224	ROHM	3216 (1206)
R4,R5	2	Resistor	0.82 Ω	0.25W, \pm 1%	MCR18EZHFLR820	ROHM	3216 (1206)
R6,R7,R15	3	Resistor	10 Ω	0.25W, \pm 5%	MCR18EZPJ100	ROHM	3216 (1206)
R8	1	Resistor	100k Ω	2W, 700V, \pm 2%	ERG2SJ104E	Panasonic	-
R9	1	Resistor	68k Ω	0.1W, \pm 1%	MCR03EZPPFX6802	ROHM	1608 (0603)
R10	1	Resistor	18k Ω	0.1W, \pm 1%	MCR03EZPPFX1802	ROHM	1608 (0603)
R11	1	Resistor	10k Ω	0.1W, \pm 1%	MCR03EZPPFX1002	ROHM	1608 (0603)
R12	1	Resistor	10k Ω	0.1W, \pm 5%	MCR03EZPJ103	ROHM	1608 (0603)
R13	1	Resistor	4.7k Ω	0.1W, \pm 5%	MCR03EZPJ472	ROHM	1608 (0603)
R14	1	Resistor	1k Ω	0.1W, \pm 5%	MCR03EZPJ102	ROHM	1608 (0603)

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