

Designator	Type	Parts Value	Description	Product Name	Manufacturer	Footprint
-	EVALUATION BOARD	-	Board	Evaluation board	-	-
C104	Capacitor	0.1μF	50V,±10%	CGA2B3X7R1H104K050BB	TDK	1005
C105,C106,C107,C108,C109,C110	Capacitor	4700pF	50V,±10%	CGA2B2X7R1H472K050BE	TDK	1005
C19, C20, C24, C25, C27, C28, C29, C30, C36, C37, C38, C49, C52, C55	Capacitor	0.1μF	50V,±10%	CGA2B3X5R1H104K050BB	TDK	1005
C22	Capacitor	22000pF	50V,±10%	CGA2B3X7R1H223K050BB	TDK	1005
C23, C39	Capacitor	100pF	50V,±10%	CGA2B2C0G1H101J050BA	TDK	1005
C26,C31	Capacitor	470nF	50V,±10%	CGA3E3X7R1H474K080AB	TDK	1608
C33	Aluminum Electrolytic Capacito	100μF	50V,±10%	UBT1H101MPD8	Nichicon	φD×L(mm):10x20
C34,C46,C47,C50,C54	Aluminum Electrolytic Capacito	330μF	50V,±10%	UBT1H331MHD8	Nichicon	φD×L(mm):12.5x20
C40	Capacitor	1μF	16V	CGA3E1X7R1C105K080AC	TDK	1608
C48,C51,C56	Capacitor	0.1μF	50V,±10%	CGA2B3X7R1H104K050BB	TDK	1005
C53	Aluminum Electrolytic Capacitor	1000μF	50V,±10%	UBT1H102MHD8	Nichicon	16x31.5
CK1	OSCILLATOR	10MHz	±0.5%,40Q,33pF	CSTNE10M0G55A	Murata	CSTCE_G_A
CN1	Header Connector	-	-	HDR 2X4	-	HDR(2X4)
CN3	Header Connector	-	-	HDR 1X6	-	HDR(1X6)
CN4	Header Connector	-	-	HDR 1X4	-	HDR(1X4)
CN5, CN7	Connector	-	-	OSTT7022150	ON-SHORE TECHNOLOGY	-
CN6	Connector	-	-	OSTT7032150	ON-SHORE TECHNOLOGY	-
D1, D2, D3, D4, D5, D6	Diode	-	-	RRE01VM4SFHTE-17	ROHM	D_3216
D10	Diode	-	-	RR1LAM4STF	ROHM	D1F60
D9	Zenner Diode	30V	-	KDZVTF30B	ROHM	D_MCR50WLEAD
DCIN1	CHECK PIN	-	Test Pin, Through Hole	LC-2-G Yellow	-	TP/1.6/2.3
DCIN2,LCSET1,SSU1,SSD1,PROP1,INTG1	CHECK PIN	-	Test Pin, Through Hole	LC-2-G Yellow	-	TP/1.6/2.3
RREF1,PCG1,PCI1,OCPI,OCL1	CHECK PIN	-	Test Pin, Through Hole	LC-2-G White	-	TP/1.6/2.3
FGO1_VS_U1_VS_V1_VS_W1	CHECK PIN	-	Test Pin, Through Hole	LC-2-G White	-	TP/1.6/2.3
J1, J16	Jumper	-	-	-	-	SS/1.5X1.5/0.5
J15	Jumper	-	-	-	-	SS/1.5X1.5/0.5
L2	Inductor	1.3μH	±20%	XAL1350-132MED	Coilcraft	14mm2
L3	Common mode choke	500Ω@10MHz	Common mode choke	PLT10HH501100PN	Murata	12.9x6.6
L4	-	short	-	-	-	1608
M1, M2, M3, M4, M5, M6	Nch MOSFET	BVDSS 40V / Ron(Max)1.4Ω Ciss 4460pF	-	Under Development	ROHM	MOSFET(5X6)
PWMI1	CHECK PIN	-	Test Pin, Through Hole	LC-2-G Yellow	-	TP/1.6/2.3
R1, R7, R13	Resistor	470Ω	50V,±1%	MCR03EZPFX4700	ROHM	1608
R19, R21	Resistor	2.2kΩ	50V,±1%	MCR01MZPF2201	ROHM	1005
R2, R8, R14, R20, R23, R42, R46	Resistor	47kΩ	50V,±1%	MCR01MZPF4702	ROHM	1005
R22	Resistor	10Ω	50V,±1%	MCR01MZPF10R0	ROHM	1005
R24	Resistor	1.4kΩ	50V,±1%	MCR01MZPF1401	ROHM	1005
R3, R9, R15	Resistor	24Ω	50V,±1%	MCR03EZPFX24R0	ROHM	1608
R33	Resistor	75Ω	50V,±1%	MCR01MZPF75R0	ROHM	1005
R34, R43, R44	Resistor	0Ω	50V	MCR01PZPJ000	ROHM	1005
R35	Resistor	100Ω	50V,±1%	MCR01MZPF1000	ROHM	1005
R4, R10, R16	Resistor	51Ω	50V,±1%	MCR03EZPFX51R0	ROHM	1608
R47	Resistor	2.4kΩ	50V,±1%	MCR01MZPF2401	ROHM	1005
R48, R49, R74	Resistor	150Ω	50V,±1%	MCR01MZPF1500	ROHM	1005
R5, R11, R17	Resistor	270Ω	50V,±1%	MCR03EZPFX2700	ROHM	1608
R6, R12, R18, R32, R45	Resistor	10kΩ	50V,±1%	MCR01MZPF1002	ROHM	1005
R75	Resistor	1MΩ	50V,±1%	MCR01MZPF1004	ROHM	1005
R76	-	short	-	-	-	JUMPER(B)
RT1	NTC THERMISTORS	100kΩ	Thermistor	NTCG164KF104FTDS	TDK	1608
SR1	Resistor	1mΩ/8W	Shunt Resistor	PSR400ITQFH1L00	ROHM	PSR400
SW1, SW2, SW3,SW4, SW5, SW6	3 state switch	-	Switch	FT 1E-2M-Z	NIDEC COPAL	SW_FT1E-2M-Z
TR1, TR2	SILICON TRANSISTOR	-	NPN Transistor	2SC4081U3T106R	ROHM	TR_UMT3_SC-70_SOT-323
TR3	SILICON TRANSISTORS	-	NPN Digital Transistor	DTC143EU3HZGT106	ROHM	TR_UMT3_SC-70_SOT-323
TR4	SILICON TRANSISTORS	-	PNP Digital Transistor	DTA123EU3HZGT106	ROHM	TR_UMT3_SC-70_SOT-323
U1	INTEGRATED CIRCUITS	-	3 Phase Motor Driver	BD63030EKV-C	ROHM	TQFP-64V
VR1, VR2, VR3, VR4, VR5, VR6, VR7, VR8, VR9, VR10, VR11	Resistor	50kΩ	Variable Resistor	CT-6EP 50k Ohm	NIDEC COPAL	CT-6EP
VSUP1	CHECK PIN	-	Test Pin, Through Hole	LC-2-G Red	-	TP/1.6/2.3

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