



Bill of Materials for the CCR120PS3GEVK

DRIVER BOARD

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
D1-D4	4	Power Rectifier, Standard Recovery, 1 A, 400 V	1 A, 400 V	-	SMA	ON Semiconductor	MRA4004T3G	No	Yes
CCR1	1	120 VAC, 50mA - LED Driver, Constant Current Regulator	NSIC2050BT3G	15%	SMB	ON Semiconductor	NSIC2050BT3G	No	Yes
CCR2	1	120 VAC, 30mA - LED Driver, Constant Current Regulator	NSIC2030BT3G	15%	SMB	ON Semiconductor	NSIC2030BT3G	No	Yes
D5	1	75 V Switching Diode	-	-	SOD-323	ON Semiconductor	BAS16HT1G	No	Yes
T1	1	40V, 200mA NPN Bipolar Transistor	-	-	SOT-23	ON Semiconductor	MMBT3904LT1G	No	Yes
T2	1	60V, 600mA PNP Bipolar Transistor	-	-	SOT-23	ON Semiconductor	MMBT2907ALT1G	No	Yes
T3	1	350V, 100mA High Voltage NPN Bipolar Transistor	-	-	SOT-23	ON Semiconductor	MMBT6517LT1G	No	Yes
T4	1	140V, 600mA High Voltage NPN Bipolar Transistor	-	-	SOT-23	ON Semiconductor	MMBT5550LT1G	No	Yes
T5	1	150V, 500mA High Voltage PNP Bipolar Transistor	-	-	SOT-23	ON Semiconductor	MMBT5401LT1G	No	Yes
MOV1	1	VARISTOR, SMD, 240V	240V Varistor	-	SMD	PANASONIC	ERZVF2M241	Yes	Yes
F1	1	FUSE, ANTISURGE, SMD, 1A	1A ant sururge fuse	-	SMD	LITTELFUSE	0452001.NRL	Yes	Yes
S1-S4	4	0 Ohm, THICK FILM CHIP RESISTOR	0	-	2010	VISHAY DRALORIC	CRCW2010000Z0EF	Yes	Yes
R1	1	RESISTOR, 1M, 0.25W, 1%, 1206, SMD	1M	1%	1206	VISHAY DRALORIC	CRCW12061M00FKEA	Yes	Yes
R2	1	RESISTOR, THICK FILM, 5K6, 1%, 250mW, 1206	5.6k	1%	1206	VISHAY DRALORIC	CRCW12065K60FKEA	Yes	Yes
R3	1	RESISTOR, 1206, 301K, 1%	301k	1%	1206	VISHAY DRALORIC	CRCW1206301KFKEA	Yes	Yes
R4	1	RESISTOR, 1206, 590R, 1%	590	1%	1206	VISHAY DRALORIC	CRCW1206590RFKEA	Yes	Yes
R5	1	RESISTOR, 100K, 0.25W, 1%, 1206, SMD	100k	1%	1206	VISHAY DRALORIC	CRCW1206100KFKEA	Yes	Yes
R6, R9	2	RESISTOR, 1206, 2K20, 1%	2.2k	1%	1206	VISHAY DRALORIC	CRCW12062K20FKEA	Yes	Yes
R7, R8	2	RESISTOR, 1206, 27K, 1%	27k	1%	1206	VISHAY DRALORIC	CRCW120627K0FKEA	Yes	Yes
C1	1	CAPACITOR, 1206, X7R, 630V, 2.2NF	2.2n	10%	1206	MURATA	GRM31BR72J222KW01L	Yes	Yes
C2, C3	2	CAPACITOR, 0805, 1NF, 50V	1n	5%	0805	YAGEO (PHYCOMP)	CC0805JRNPO9BN102	Yes	Yes
LEDCON1	1	BG300-04-A-L-A - RECEPTACLE, 2.54MM, SMT, R/A, 4WAY, FEMALE	-	-	-	GLOBAL CONNECTOR TECHNOLOGY	BG300-04-A-L-A	No	Yes
ACCON1	1	CONNECTOR, LED, 2 POST SMD	-	-	-	GLOBAL CONNECTOR TECHNOLOGY	1954097-1	No	Yes
AC1, AC2, A_CCR1, A_CCR2, T1_C, T3_C, A_S1, A_S2, C_S1, C_S2	10	TEST POINT, SMT, 3.25MM	-	-	-	HARWIN	S1751-46	No	Yes

LED BOARD

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
LED1-LED6	6	20 V High Power LEDs - White, XLamp	20V / 175 mA	-	-	CREE	MX6SWT-H1-0000-000BE8 (bin# MX6S-H1-8A3-Q3-TB-0001)	No	Yes
LEDCON1	1	BG301-04-A-0540-L-B - HEADER, 2.54MM, SMT, R/A, 4WAY, MALE	-	-	-	GLOBAL CONNECTOR TECHNOLOGY	BG301-04-A-0540-L-B	No	Yes