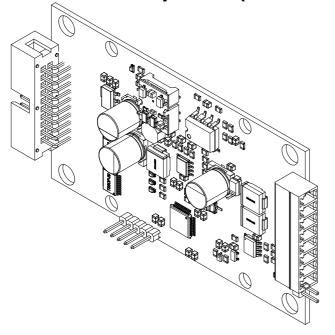
İçindekiler / Contents

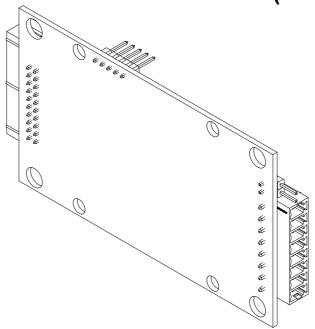
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Sayfa No / page number	Açıklama / Description
1	İçindekiler / Contents
2	İzometrik Görünüm / Isometric View
3	Kart Dizgi Görünümü / Board Assembly View
4	Üst Yüz Dizgi / Top Side Assembly
5	Alt Yüz Dizgi / Bottom Side Assembly
6 >	Malzeme Listesi / Bill Of Materials

Kont/Check Hamit Can Dinç	Tanim/Description	Stok No/ Stock Number					
Haz/Prep Hamit Can Dinc	PFC CONTROL BOA	-					
*		Rev					
		1					
	Ortam/Env	Syfnin/Shts / S				Deg Tarihi/Chng Date	Form
	Altium Designer	1 / 8	8	01.07.2024	Hamit Can	01.07.2024	A3

View from Top side (Scale 1:1)

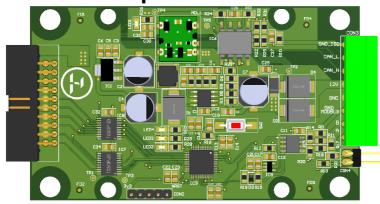


View from Bottom side (Scale 1:1)

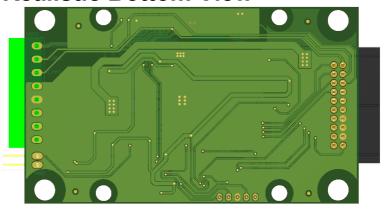


No	Açıklama / Description

Kont/Check Hamit Can Dinç	Tanim/Description		Stok No/ Stock Number				
Haz/Prep Hamit Can Dinc	PFC CONTROL BOA	PFC CONTROL BOARD					
Harrit Gari Diriç							
						1	
	Ortam/Env Altium Designer	Syfnin/Shts / 2 /	Sayfasi/Sht	Tarih/Date 01.07.2024	Deg Onay/Change Appr Hamit Can	Deg Tarihi/Chng Date 01.07.2024	Form A3



Realistic Bottom View



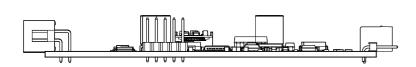
Notlar / Notes

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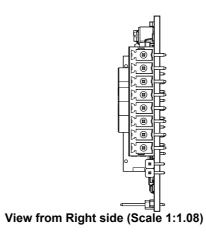
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Haz/Prep	PFC CONTROL BOA	RD		-				
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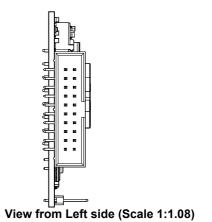
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Kart Dizgi Görünümü / Board Assembly View

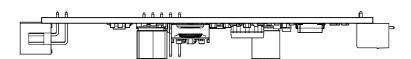


View from Front side (Scale 1:1.08)



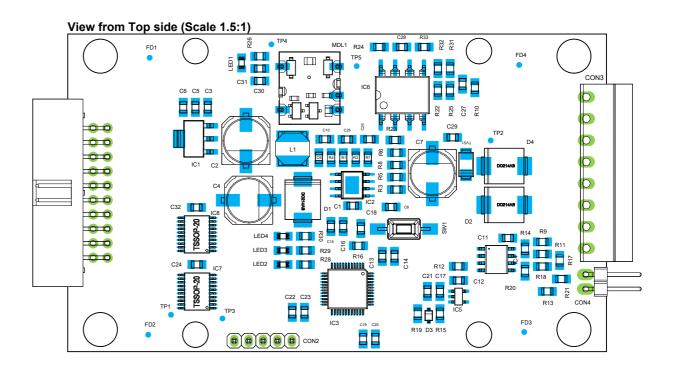


View from Back side (Scale 1:1.08)



No	Açıklama / Description

Kont/Check Hamit Can Dinç	Tanim/Description	Tanim/Description							
Haz/Prep Hamit Can Dinç	PFC CONTROL BOA	PFC CONTROL BOARD					Rev		
	Ortam/Env Altium Designer	Syfnin/Shts /	/ Sayfasi/Sht / 8	Tarih/Date 01.07.2024	Deg Onay/Change Appr Hamit Can	Deg Tarihi/Chng Date 01.07.2024	Form A3		



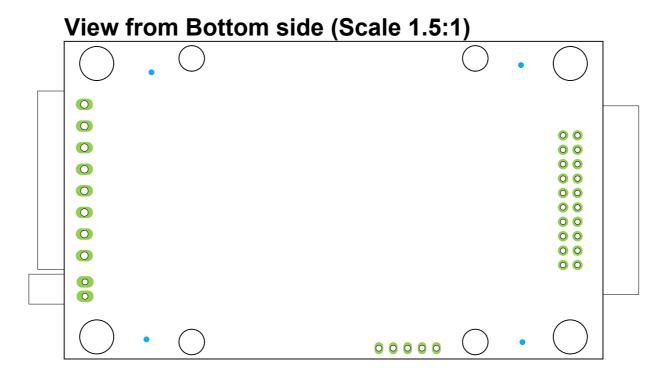
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Alt Yüz Dizgi / Bottom Side Assembly



No	Açıklama / Description

	Ortam/Env Altium Designer	Syfnin/Shts / 7 /			Deg Onay/Change Appr Hamit Can	Deg Tarihi/Chng Date 01.07.2024	Form A3
Haz/Prep Hamit Can Dinç	PFC CONTROL BOA	Rev 1					
Kont/Check Hamit Can Dinç	Tanim/Description	Stok No/ Stock Number					

Line #	Component Type		Manufacturer	Manufacturer PN	Quantity	Description	MSL	Lead Status	Mounting Type	Temp# Operating	Temp# Storage	Max Reflow Duration	Max Reflow Temp	Washable	Fitted
1	Ceramic Capacitor	C1, C3, C6, C8, C11, C12, C13, C18, C19, C23, C24, C26, C28, C29, C30, C32	KEMET	C0805C104M5RAC7800	16	0.1 µF ±20% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
2	Aluminum Capacitor	C2, C4, C7	SAMYOUNG	BDS35VC220MH10TP	3	CAP.EL.220uF 35V 8x10 105C 2000Hrs SMD	1	ROHS3 Compliant	SMD	-40/+105°C		10s	260C		Fitted
3	Ceramic Capacitor	C5	TDK Corporation	C2012X7R1H475K125AC	1	4.7 µF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
4	Ceramic Capacitor	C9	YAGEO	CC0805JRNPO9BN390	1	39 pF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
5	Ceramic Capacitor	C10	KEMET	C0805C622J5GACTU	1	6200 pF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
6	Ceramic Capacitor	C14, C15, C20, C22	Samsung Electro- Mechanics	CL10B105KP8NNNC	4	1 μF ±10% 10V Ceramic Capacitor X7R 0603 (1608 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
7	Ceramic Capacitor	C16	KEMET	C0805C103J5RAC7210	1	10000 pF ±5% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
3	Ceramic Capacitor	C17, C21	KEMET	C0805C101F5GAC7800	2	100 pF ±1% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
9	Ceramic Capacitor	C25, C31	Murata Electronics	GRM21BR61H106KE43L	2	10 μF ±10% 50V Ceramic Capacitor X5R 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+85°C		10s	260C		Fitted
10	Ceramic Capacitor	C27	KEMET	C0805C472K5RAC7800	1	4700 pF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	1	ROHS3 Compliant	SMD	-55/+125°C		10s	260C		Fitted
11	Box Header	CON1	AMTEK	5BH1RDA88-20G05AU-00	1	BOX HEADER 20PIN(2x10) 2.54mm THT R/A MALE BLACK	1	ROHS3 Compliant	THD	-45°C ~ 105°C		10s	260C		Fitted
12	Pin Header	CON2	DENK-ELEC	DK501-1X5SBT-3X12MM	1	PIN HEADER 5PIN(1x5) 2.54mm THT V/T 3X12MM	1	ROHS3 Compliant	THD	-40°C ~ 105°C		6s	260C		Fitted
13	Klemens	CON3	DEGSON	15EDGRC-3.81-08P-14-00 AH	1	TERM.BLK.3.81MM 8P 90C MALE GREEN CLOSED	1	ROHS3 Compliant	THD	-40°C ~ 105°C	N/A	10s	260C		Fitted
14	Pin Header	CON4	AMTEK	5PH1RUA25-102G0NNBL6 X3X4	1	PIN HEADER 2PIN(1x2) 2.54mm THT R/A 6X3X4.5MM	1	ROHS3 Compliant	THD	-40°C ~ 105°C		10s	260C		Fitted
15	Diode, Schottky	D1, D2, D4	ONS (FAIRCHILD)	ES3D	3	DIODE FAST RECOVERY Single 3A 200V DO214AB (SMC)	1	ROHS Compliant	SMD	-50°C ~ 150°C	-50°C/+150°C	10s	260C		Fitted
16	Diode, Schottky	D3	HOTTECH	1N4148WS-HT	1	DIODE FAST SWITCHING Single 150mA 75V SMT SOD323	1	ROHS Compliant	SMD	-65°C/+150°C	-65°C/+150°C	10s	260C		Fitted
17	Fiducial	FD1, FD2, FD3, FD4			4	Fiducial 1mm	N/A	N/A	SMD						Fitted
18	Linear Regulator	IC1	Texas Instruments	LM1117IMPX-3.3/NOPB	1	IC REG LIN 3.3V 800MA SOT223-4	1	ROHS3 Compliant	SMD	-40°C/+125°C	-65°C/+150°C	10s	260C		Fitted
19	Switching Regulator	IC2	Texas Instruments	TPS54360DDAR	1	IC-54360 REG BUCK SPLIT RAIL 8SOPWRPAD	2	ROHS3 Compliant	SMD	-40°C/+150°C	-65°C/+150°C	10s	260C		Fitted
20	MCU	IC3	STMicroelectronics	STM32F072CBT6TR	1	IC-32F072C MCU 32BIT 128KB FLASH 48LQFP	1	ROHS3 Compliant	SMD	-40°C/+85°C	-65°C/+150°C	10s	260C		Fitted
21	Transceiver	IC4	Texas Instruments	SN75176BDR	1	IC-75176 RS485 DRIVER SMD SO8 TR TI	1	ROHS3 Compliant	SMD	0°C/+70°C	-65°C/+150°C	10s	260		Fitted
22	Buffer	IC5	Texas Instruments	SN74LVC1G14DBVR	1	IC-74LVC14 BUFFER SCHMIT TRIG SOT23-5 SMD	1	ROHS3 Compliant	SMD	-40°C/+85°C	-65°C/+150°C	10s	260C		Fitted
23	Transceiver	IC6	Texas Instruments	ISO1050DUBR	1	IC-1050DUBR ISOLATED CAN TRANSCEIVER SOP8 SMD TI	4	ROHS3 Compliant	SMD	-55°C/+105°C	-65°C/+150°C	10s	260		Fitted
24	Buffer	IC7, IC8	Texas Instruments	SN74HCT244PWR	2	IC-74HCT244 SMD TSSOP20	1	ROHS3 Compliant	SMD	-40°C/+85°C	-65°C/+150°C	10s	260C		Fitted
25	Inductor	L1	Core Master	NR6028-220M	1	INDUCTOR POWER 22UH 6X6MM 1.44A SMD	1	ROHS3 Compliant	SMD	N/A	N/A				Fitted
26	LED	LED1, LED2, LED3, LED4	HONGLITRONIC	HL-PSC-2012S9AC	4	LED SMD 0805 RED 110mcd 120° WATER CLEAR	4	ROHS Compliant	SMD	-40°C/+85°C	-40°C/+100°C	10s	260C		Fitted
27	DCDC Module	MDL1	Recom Power	R1SX-0505-R	1	DC/DC CONV 1W 5VDC 5VDC 200mA Op Fr	1	ROHS3 Compliant	SMD	-40°C/+100°C	-55°C/+125°C				Fitted
28	Resistor	R1	KOA Speer Electronics, Inc.	RK73H2ATTD3302F	1	33 kOhms ±1% 0.25W, 1/4W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	1	RoHS3 Compliant	SMD	-55°C/+155°C	-55°C/+155°C	10s	260C		Fitted

Kont/Check Hamit Can Dinç	Tanim/Description	Stok No/ Stock Number				
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	Ortam/Env Altium Designer	Syfnin/Shts / Sayfasi/S 8 / 8		Deg Onay/Change Appr Hamit Can	Deg Tarihi/Chng Date 01.07.2024	Form A3