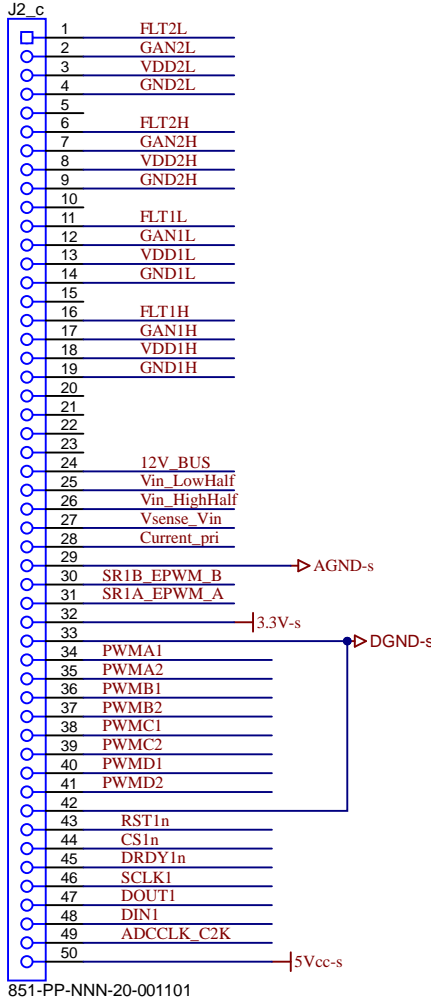


Control Board Interface

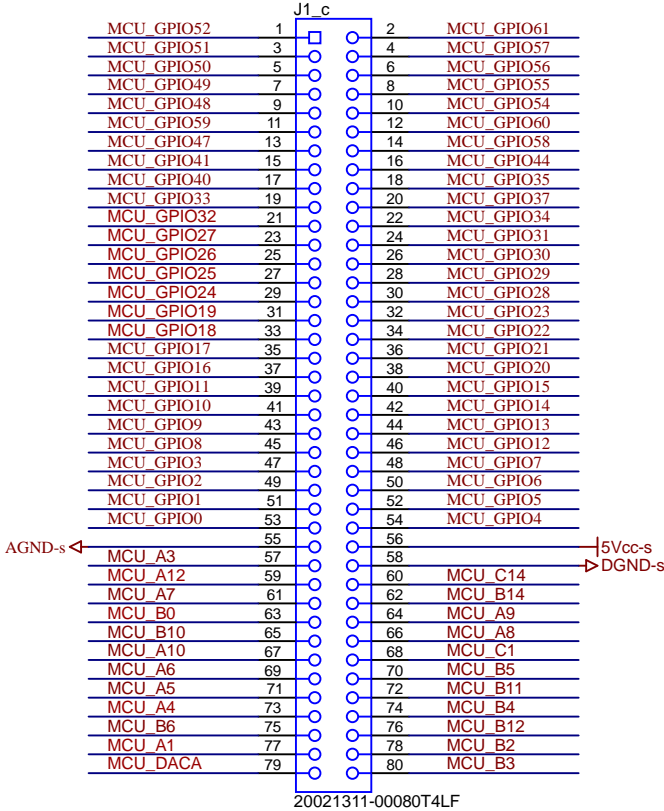
Revision History

Rev	ECN #	Approved Date	Approved by	Notes
E1	N/A	N/A	N/A	N/A

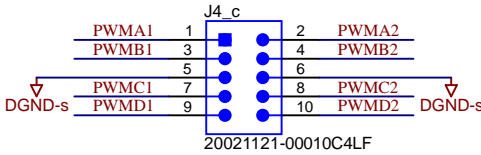
Connect with Power Board



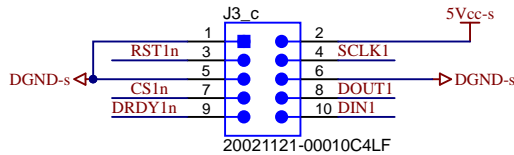
Connect with F280039 interpose board



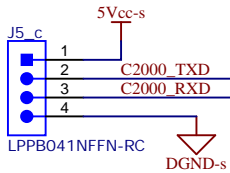
Reserved for Buck Converter



Reserved for ADC Port



Reserved for CAN Port



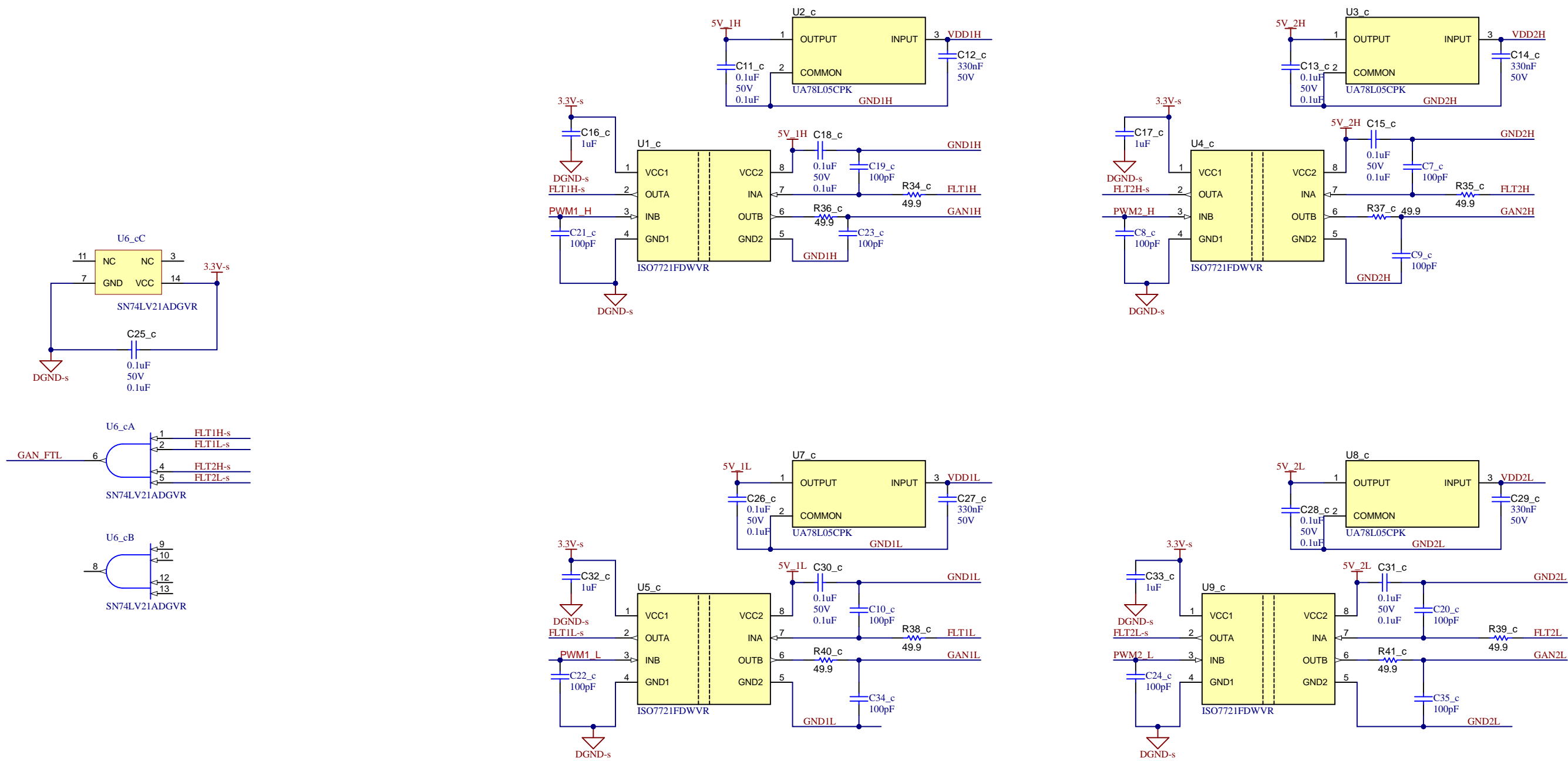
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Orderable: ChangeMe in variant	Designed for: Public Release	Mod. Date: 5/14/2024
TID #: PMP41037	Project Title: Control Board	
Number: PMP41037	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 5
Drawn By:	File: PMP41037_Control_Connector.SchDoc	Size: B
Engineer: Desheng Guo	Contact: http://www.ti.com/support	http://www.ti.com

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Primary PWM Isolation



Digital Interface

Primary

J1/J7 Pin50

MCU_GPIO0

R1 c

0

PWM1_H

MCU_GPIO6

R2 c

0

PWM2_L

J1/J7 Pin48

MCU_GPIO1

R3 c

0

PWM1_L

MCU_GPIO7

R5 c

0

PWM2_H

Secondary

MCU_GPIO2

R8 c

0

SR1A_EPWM_A

MCU_GPIO3

R10 c

0

SR1B_EPWM_B

BUCK-BOOST

MCU_GPIO4

R12 c

0

PWMA1

MCU_GPIO5

R13 c

0

PWMA2

MCU_GPIO8

R14 c

0

PWMB1

MCU_GPIO9

R15 c

0

PWMB2

MCU_GPIO10

R16 c

0

PWMC1

MCU_GPIO11

R18 c

0

PWMC2

MCU_GPIO12

R19 c

0

PWMD1

MCU_GPIO13

R20 c

0

PWMD2

SPI

MCU_GPIO14

R21 c

0

SPI_CLK

SCLK1

MCU_GPIO15

R22 c

0

SPI_CS_n

CS1_n

MCU_GPIO20

R23 c

0

SPI_MOSI

DOUT1

MCU_GPIO21

R24 c

0

SPI_MISO

DINI

CAN

MCU_GPIO18

R25 c

0

C2000_RXD

MCU_GPIO19

R26 c

0

C2000_TXD

MCU_GPIO35

R27 c

0

DRDY1_n

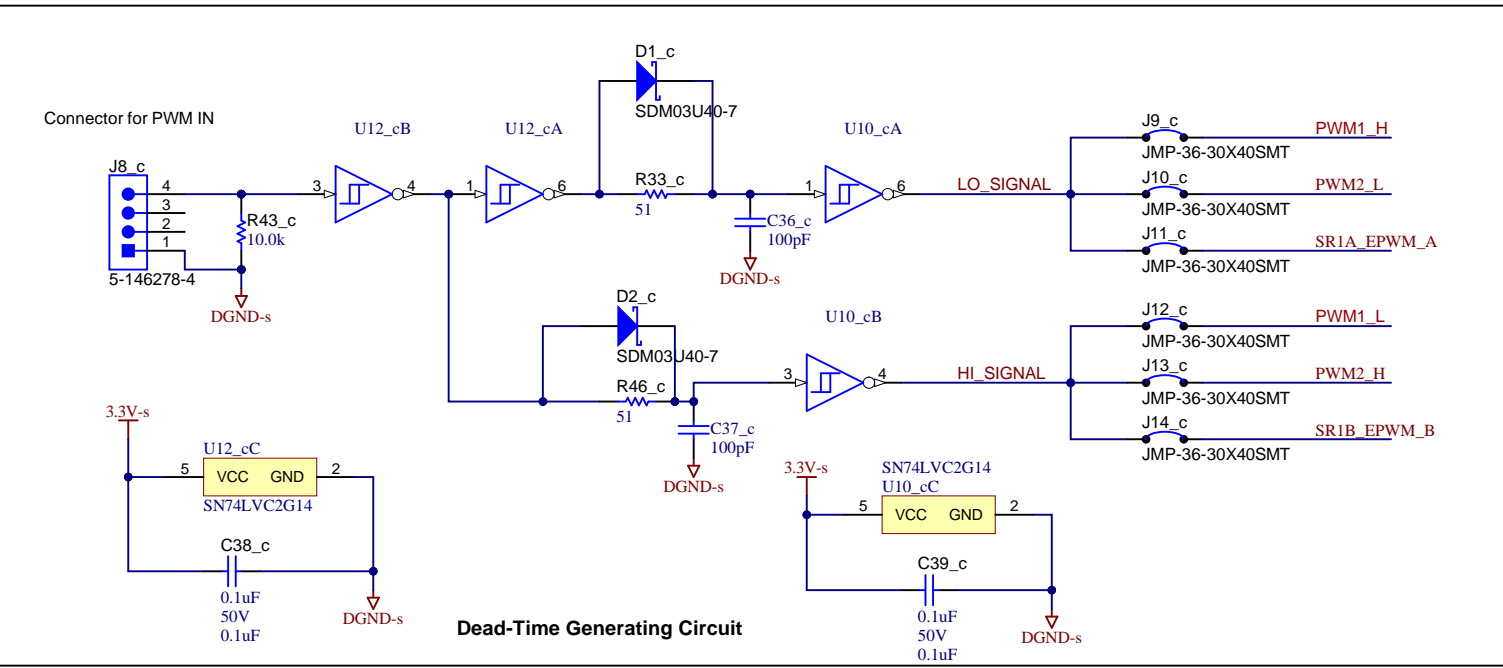
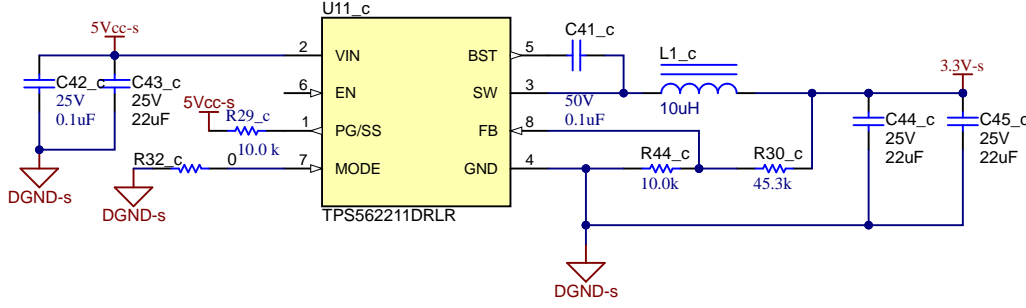
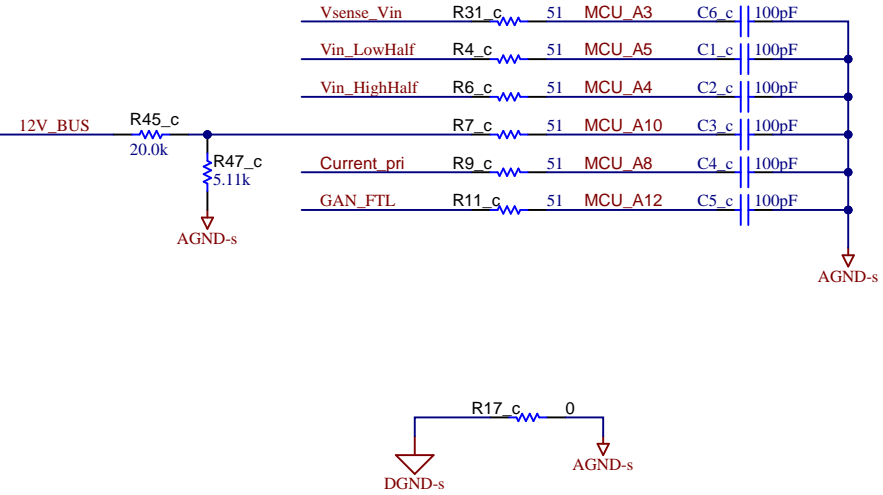
MCU_GPIO37

R28 c

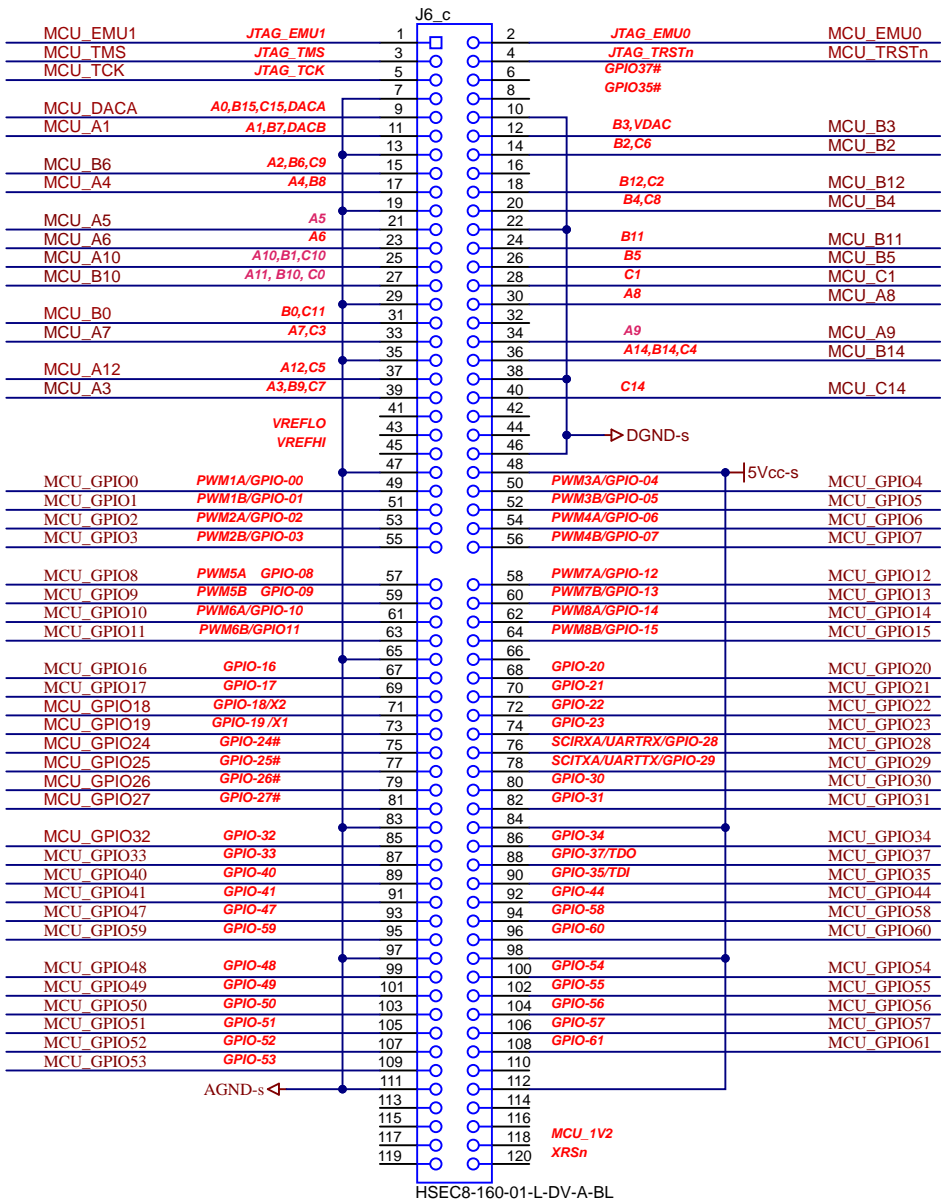
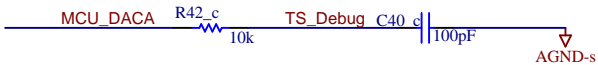
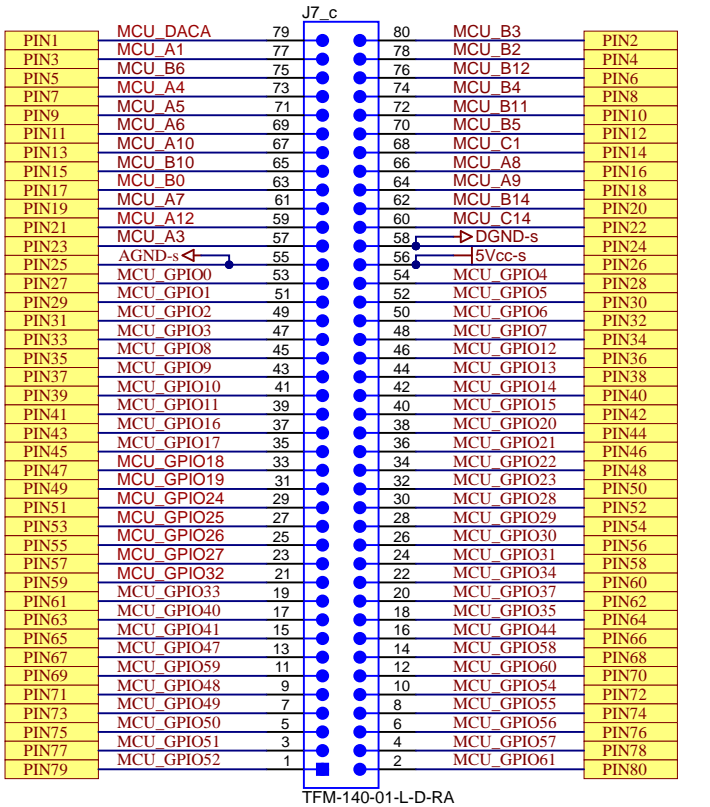
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RST1_n

Analog Interface



F280039C interposor board



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PCB Number: PMP41037

PCB Rev: E1

PCB

LOGO

Texas Instruments



PCB

LOGO

FCC disclaimer

PCB

LOGO

WEEE logo

LBL1_c

PCB Label

THT-14-423-10

Size: 0.65" x 0.20 "

ZZ1_c

Label Assembly Note

This Assembly Note is for PCB labels only

ZZ2_c

Assembly Note

These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3_c

Assembly Note

These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4_c

Assembly Note

These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

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Orderable: ChangeMe in variant		Designed for: Public Release	Mod. Date: 10/27/2022
TID #: PMP41037		Project Title: Control Board	
Number: PMP41037	Rev: E1	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 001		Sheet: 5 of 5
Drawn By:	File: PMP41037_Control_Hardware.SchDoc		Size: B
Engineer: Desheng Guo	Contact: http://www.ti.com/support		