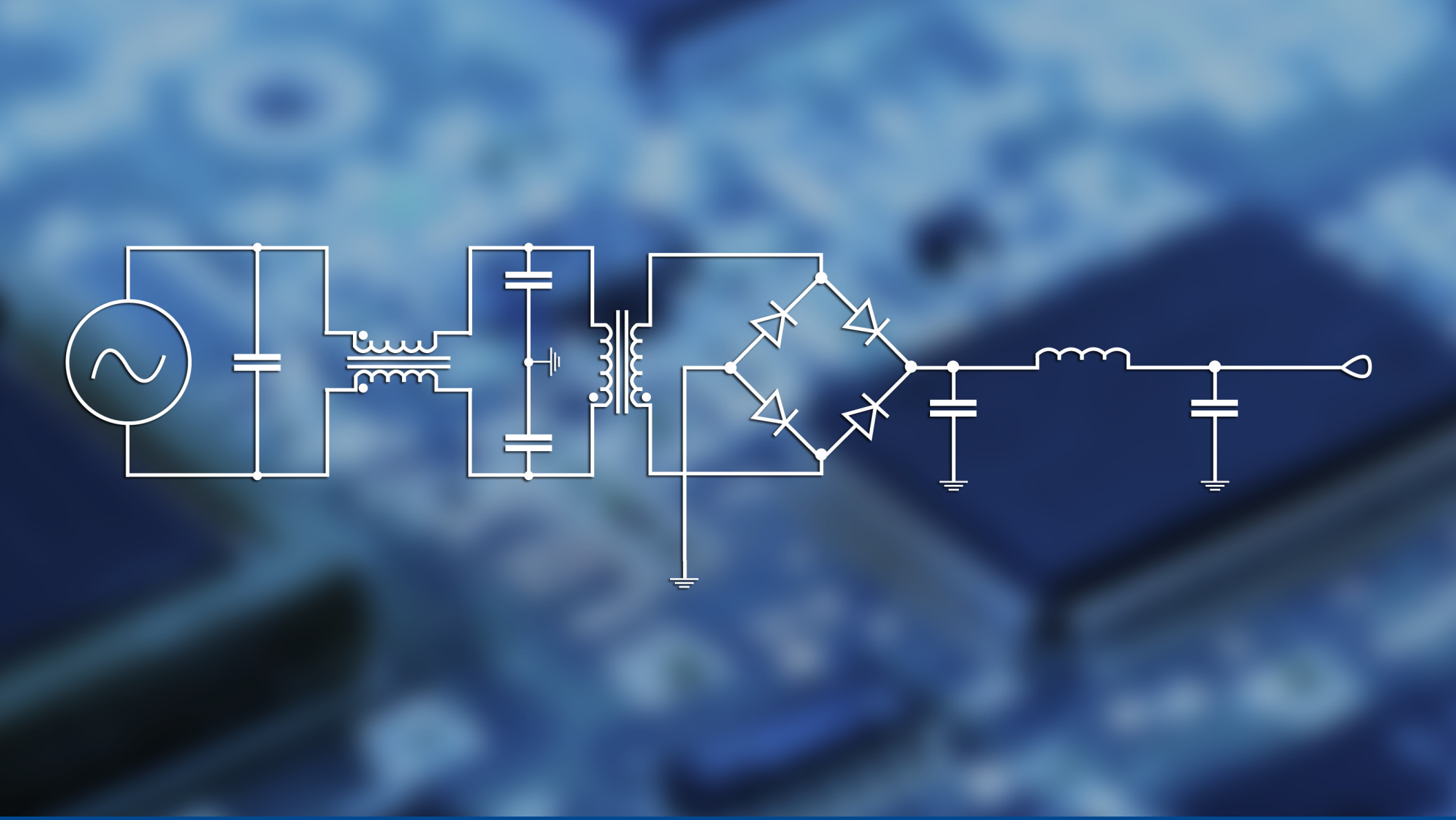

Application Guide

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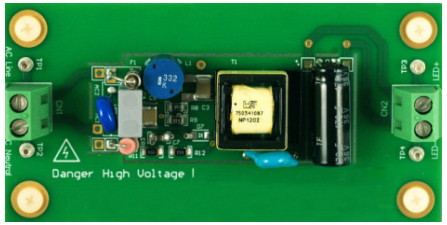
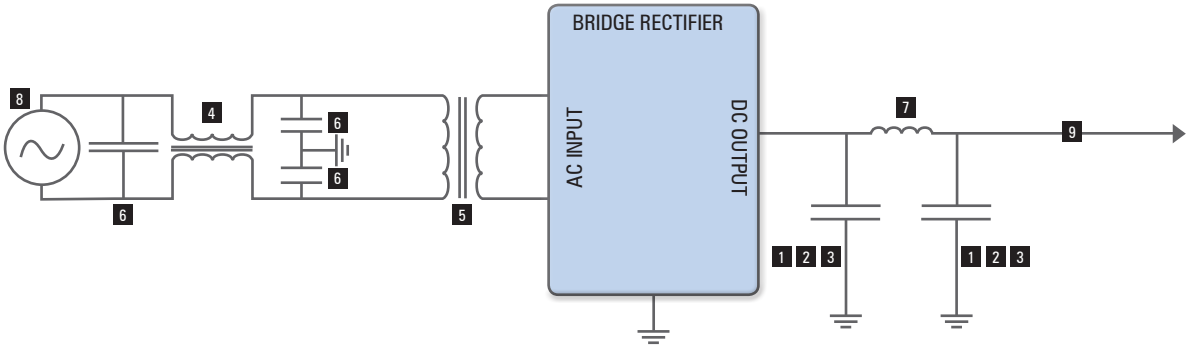
AC TO DC CONVERTER



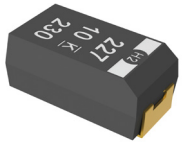


1 ALUMINUM ELECTROLYTIC

EDH, EDK, ESK, ESH, ELH, ELG

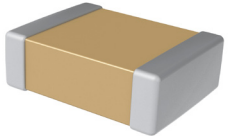
2 POLYMER TANTALUM

T520, T521, T530



3 MLCC

X7R, X5R



4 AC LINE FILTER

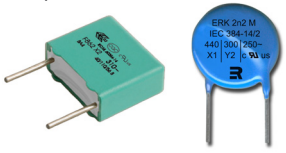
SS, SU, SC

5 TRANSFORMER

CUSTOM

6 X/Y SAFETY CAP

C900, R46, R47



7 POWER INDUCTOR

MPC, CPI, HDI, PLC, MPL, MPLC, MPGH

8 FB INLET FILTER

GL-C, GL-FVP, GL-H, GL-M, DECTRON FB

9 EMI CORE

ESD

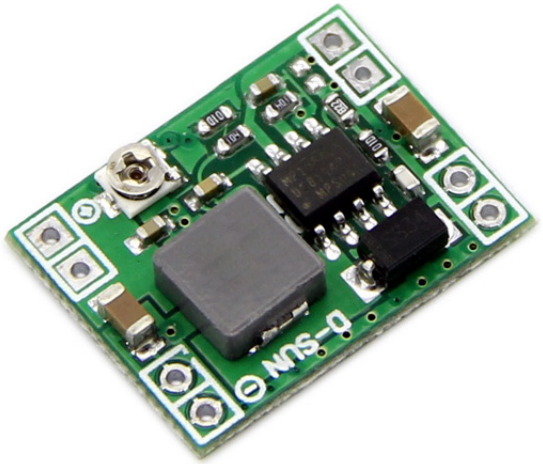
FREQUENTLY ASKED QUESTIONS

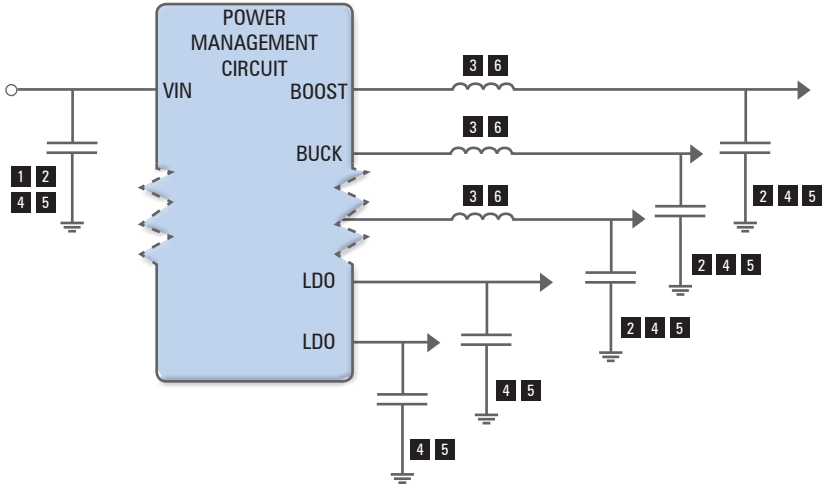
WHAT OUTPUT VOLTAGES ARE YOU USING?

HOW MUCH CURRENT FOR THE DESIGN?

WHAT INPUT AC VOLTAGES?

DC POWER DISTRIBUTION



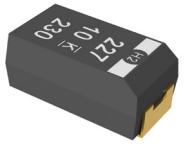


1 SMT ALUMINUM ELECTROLYTIC

EDH, EDK, EEV, EXV

2 POLYMER TANTALUM

T520, T521, T530

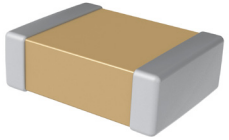


3 POWER INDUCTOR

MPC, CPI, HDI, PLC, SBC

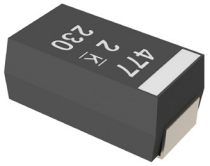
4 MLCC

X7R, X5R



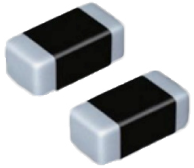
5 ALUMINUM POLYMER

A700, A720



6 CHIP INDUCTORS

PWS, PWI, PWR, PWF



FREQUENTLY ASKED QUESTIONS

WHAT INPUT VOLTAGE(S) ARE YOU USING?

WHAT OUTPUT VOLTAGE(S) ARE YOU USING?

WHAT TYPE OF VOLTAGE REGULATORS?

WHAT FREQUENCY ARE SWITCHING REGS RUNNING?

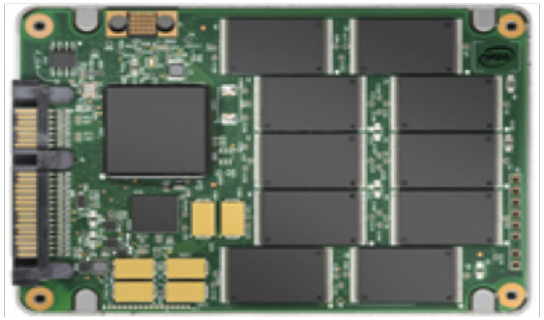
HOW MUCH OUTPUT CURRENT?

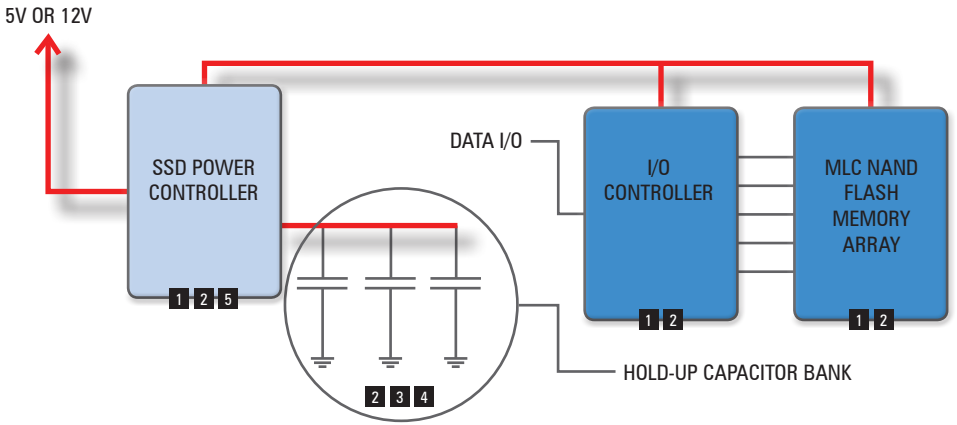
WHAT IS THE CIRCUIT APPLICATION OF EACH "RAIL"?

USING AN OTS MODULE OR DESIGNING YOUR OWN?

WHOSE REGULATORS ARE YOU USING?

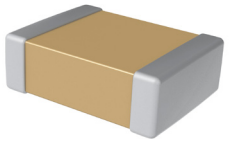
SOLID STATE DRIVE (SSD)





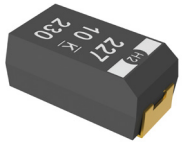
1 MLCC

X7R, X5R



2 POLYMER TANTALUM

T545

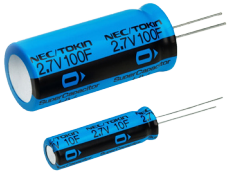


3 RADIAL ALUMINUM ELECTROLYTICS

ESK, ESH, ESC, ESG

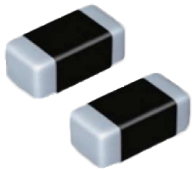
4 RADIAL SUPERCAPACITORS

HVZ SERIES



5 INDUCTORS

PWS, PWI, PWR, PWF



FREQUENTLY ASKED QUESTIONS

IS THIS SDD FOR ENTERPRISE OR SERVER APPLICATIONS?

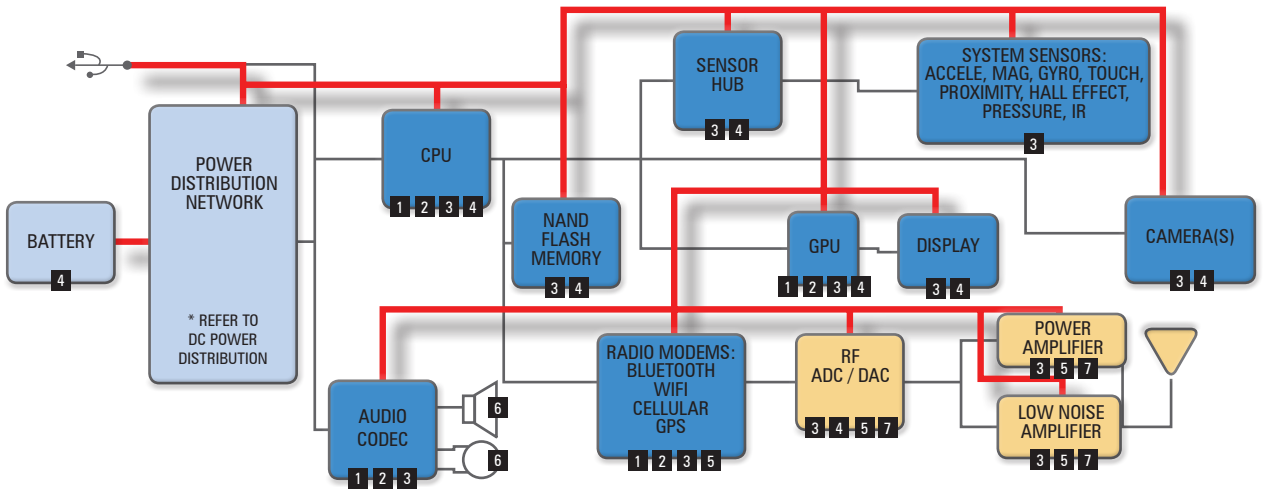
HOW MUCH FOOTPRINT AND HEIGHT SPACE IS AVAILABLE FOR HOLD-UP?

WHAT IS THE INPUT VOLTAGE FOR THE SYSTEM?

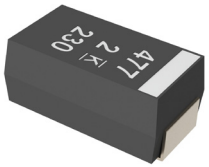
WHAT ARE THE OPERATING TEMPERATURE AND STORAGE TEMPERATURE CONDITIONS OF THE SSD?

WHAT IS THE EXPECTED LIFETIME OF THE DEVICE?

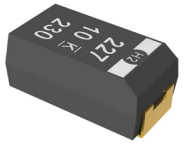
CELL PHONE/ TABLET



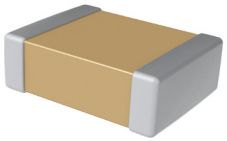
1 **ALUMINUM POLYMER**
A700, A720



2 **POLYMER TANTALUM**
T520, T528, T521, T529

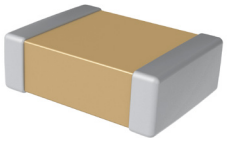


3 **MLCC**
C0G, X7R, X5R



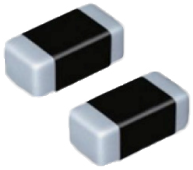
4 **FLEX SUPPRESSOR**
EFH, EFG, EFF

5 **RF MLCC**
CBR



6 **ACOUSTIC MODULE**
MINIATURE ACUTATOR Rxx

7 **CHIP INDUCTORS**
RMS



FREQUENTLY ASKED QUESTIONS

IS THIS A QUALCOMM BASED DESIGN?

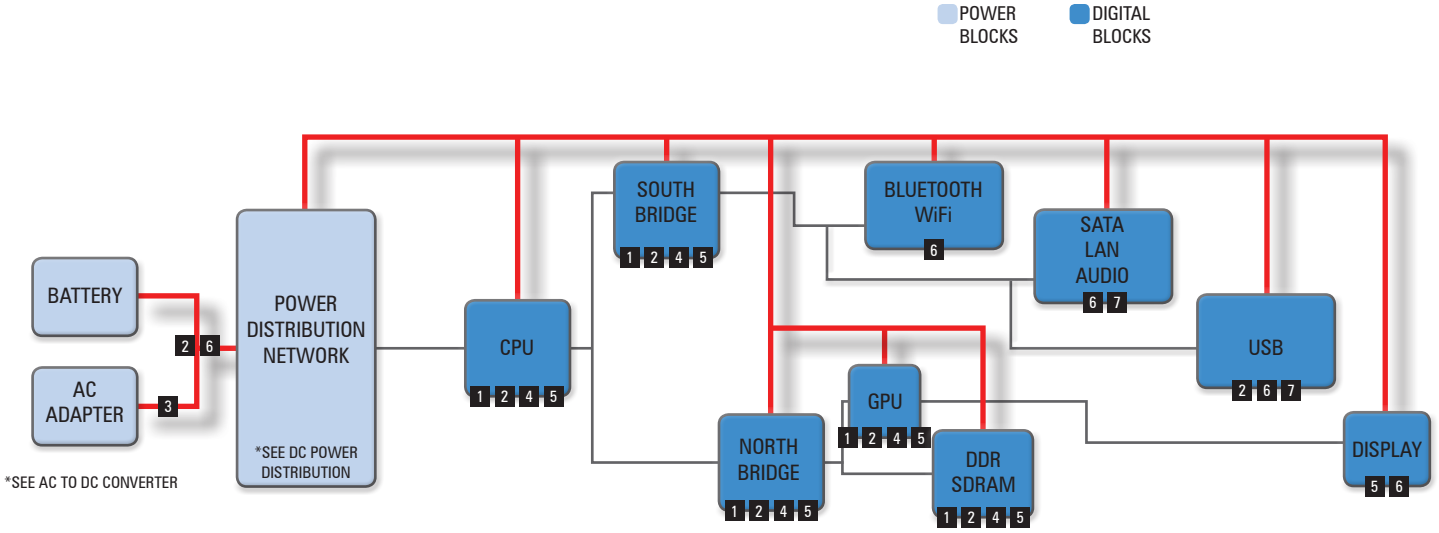
WHAT TYPE OF DISPLAY ARE YOU USING?

WHAT TYPE OF BATTERY ARE YOU USING?

WHAT VOLTAGE RAILS ARE ON YOUR SYSTEM?

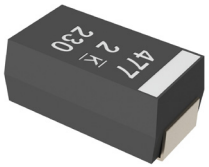
DOES THE DESIGN NEED TO BE WATERPROOF?

LAPTOP COMPUTER



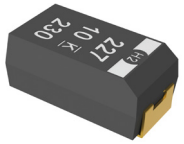
1 ALUMINUM POLYMER

A700, A720



2 POLYMER TANTALUM

T520, T528, T521, T529



3 EMI CORE

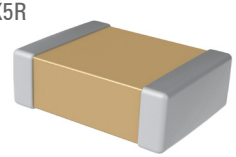
ESD

4 FLEX SUPPRESSOR

EFH, EFG, EFF

5 MLCC

C0G, X7R, X5R

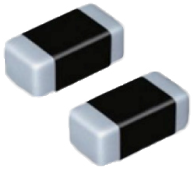


6 ALUMINUM ELECTROLYTIC

EDH, EDK, ESK, ESH

7 INDUCTORS

PWS, PWI, PWR, PWF



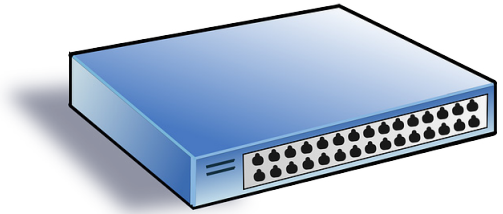
FREQUENTLY ASKED QUESTIONS

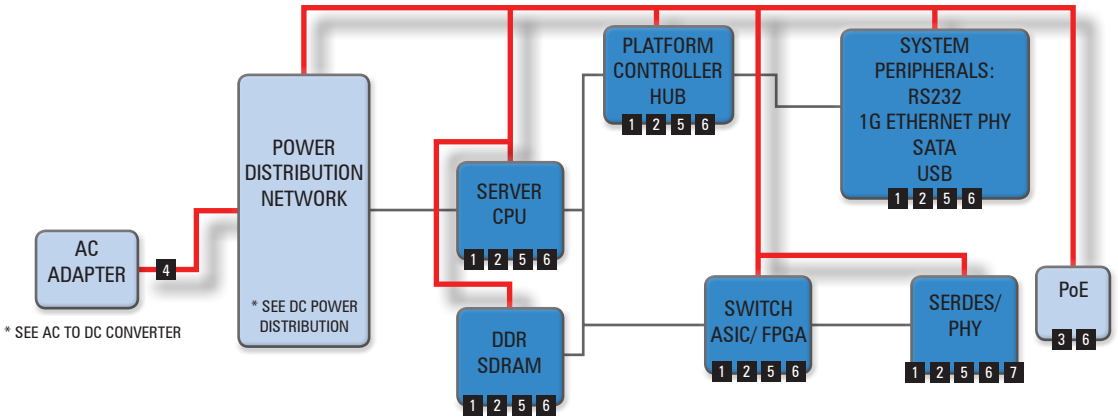
WHAT CHIPSET ARCHITECTURE ARE YOU USING?

IS THIS A COMMERCIAL SYSTEM OR FOR INDUSTRIAL/MILITARY USE?

WHAT TYPE OF COMMUNICATION PERIPHERALS ARE ON YOUR SYSTEM?

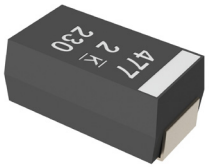
NETWORK SWITCH





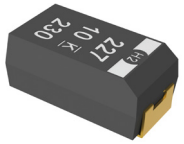
1 ALUMINUM POLYMER

A700, A720



2 POLYMER TANTALUM

T520, T521, T530



3 CURRENT SENSOR

MDCS

4 EMI CORE

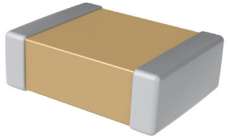
ESD

5 FLEX SUPPRESSOR

EFH, EFG, EFF

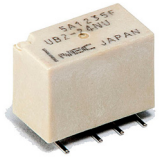
6 MLCC

X7R, C0G, X5R



7 SIGNAL RELAY

UB2, UD2



FREQUENTLY ASKED QUESTIONS

WHAT CHIPSET ARCHITECTURE ARE YOU USING?

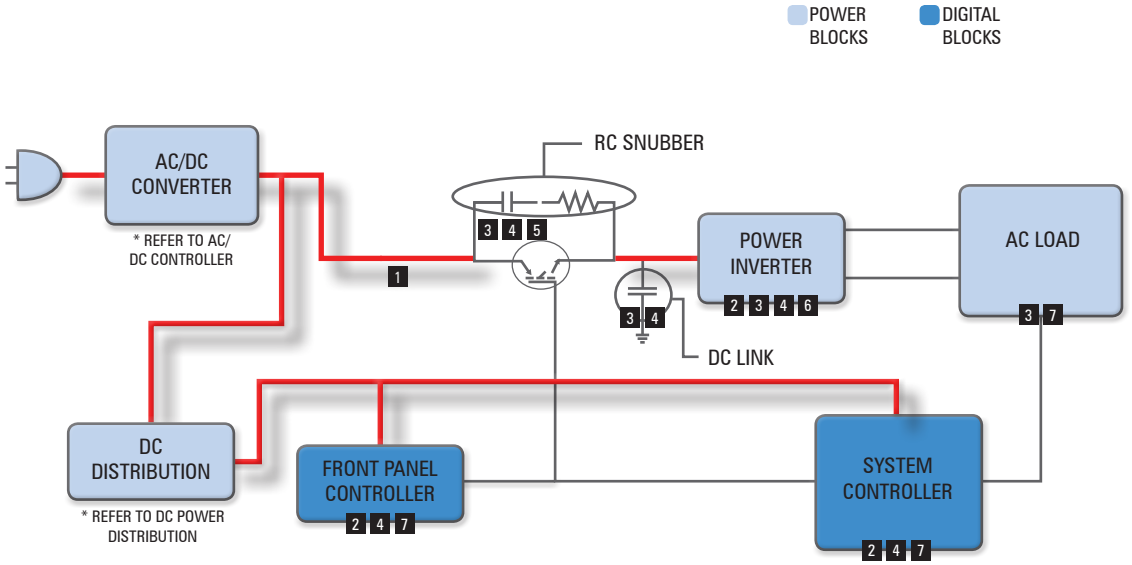
IS THIS A COMMERCIAL SYSTEM OR FOR INDUSTRIAL/MILITARY USE?

WHAT TYPE OF COMMUNICATION PERIPHERALS ARE ON YOUR SYSTEM?

HOW IS THE EQUIPMENT POWERED (AC LINE OR 48V DC)?

DOES YOUR DESIGN NEED A "LAN BYPASS" OR "FAIL OVER" RELAY?

HIGH EFFICIENCY APPLIANCES



1 EMI CORE

ESD

2 ALUMINUM ELECTROLYTIC

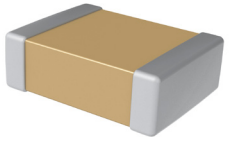
EDH, EDK, ESK, ESH, ELH, ELG

3 FILM

C4AE

4 MLCC

C0G, X7R, X5R

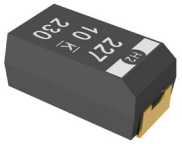


5 FILM OR RC SNUBBER

R71, R73, R76, C4AS, F43

6 POLYMER TANTALUM

T520, T521



7 RADIAL SUPERCAPACITOR

FG, FE, FM, FR

FREQUENTLY ASKED QUESTIONS

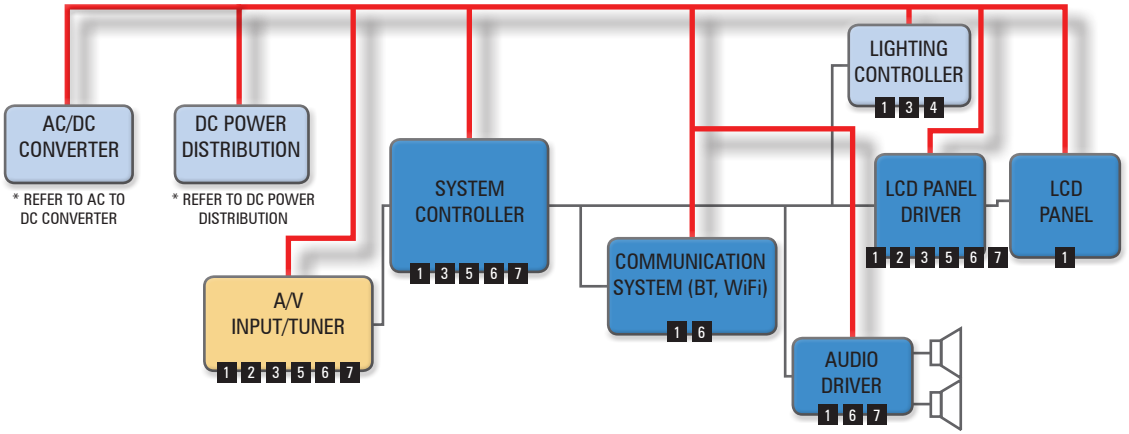
ARE YOU USING AN INVERTER TO DRIVE THE MOTORS IN THIS APPLICATION?

ARE YOU USING AN INVERTER TO DRIVE THE MOTORS?

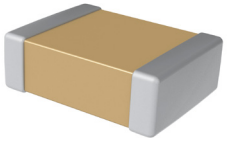
WHAT ARE THE OPERATING VOLTAGES OF THE CONTROLLER AND THE MOTORS?

WHAT IS THE APPLICATION OF THE SYSTEM?

FLAT PANEL TV

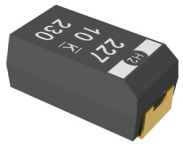


1 **MLCC**
X7R, X5R



2 **CHIP FILTER**
M-500CT, M-600T

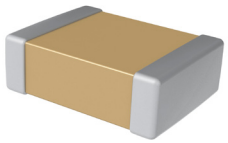
3 **POLYMER TANTALUM**
T520, T521



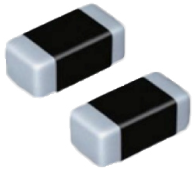
4 **POWER INDUCTOR**
MPC, CPI, HDI, PLC, SBS

5 **FLEX SUPRESSOR**
EFH, EFG, EFF

6 **MLCC**
C0G



7 **INDUCTORS**
PWS, PWI, PWR, PWF



FREQUENTLY ASKED QUESTIONS

WHAT TYPE OF BACKLIGHT SYSTEM ARE YOU USING?

WHAT TYPE OF WIRELESS CONNECTIVITY OPTIONS DOES YOUR SYSTEM HAVE?

WHAT IS YOUR POWER CONSUMPTION TARGET FOR THE WHOLE SYSTEM?

Version 3
March 12, 2015

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