

Project: Compact_IPM_demo.PrjPcb

Source Data From: Compact_IPM_demo.PrjPcb
Project: Compact_IPM_demo.PrjPcb
Variant: standard_board

Bill of Materials



Solution Engineering Center
Prestany

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Table with columns: #, Designator, Comment, Description, LibRef, SourceLibraryName, Manufacturer, Manufacturer Part Number, Supplier, Supplier Part Number, Supplier 2, Supplier Part Number 2, Quantity. Contains detailed BOM entries for various electronic components like capacitors, diodes, resistors, and connectors.

#	Designator	Comment	Description	LibRef	SourceLibraryName	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Supplier 2	Supplier Part Number 2	Quantity
#	R35, R40, R50, R51		15k SMD thick film resistor 15k 0603 1% 100 mW Panasonic	ERJ3EK1502V	resistors.SVNDblib	Panasonic	ERJ3EK1502V	Digi-Key	P15.0KHCT-ND	Mouser	667-ERI-3EK1502V	4
#	R37		143k SMD thick film resistor 143k 0603 1% 100 mW Panasonic	ERJ3EK1433V	resistors.SVNDblib	Panasonic	ERJ3EK1433V	Digi-Key	P143KHCT-ND	Mouser	667-ERI-3EK1433V	1
#	R38, R39, R40, R41, R42, R43, R54, R58, R78, R81, R84		100R SMD thick film resistor 100R 0603 1% 100 mW Panasonic	ERJ3EK1000V	resistors.SVNDblib	Panasonic	ERJ3EK1000V	Farnell	2303059	Mouser	667-ERI-3EK1000V	11
#	R44		SMD Chip Resistor, 2 Mohm, CRCW Series, 75 V, Thick Film, 0603 [1608 Metric], 100 mW Vishay	CRCW06032M00FKEA	resistors.SVNDblib	Vishay	CRCW06032M00FKEA	Farnell	1469773	Mouser	71-CRCW0603-2M-E3	1
#	R45		39k SMD thick film resistor 39k 0603 1% 100 mW Panasonic	ERJ3EK3902V	resistors.SVNDblib	Panasonic	ERJ3EK3902V	Digi-Key	P39.0KHCT-ND	Mouser	667-ERI-3EK3902V	1
#	R46, R52, R53		330k SMD Chip Resistor, 330 kohm, CRCW Series, 200 V, Thick Film, 1206 [3216 Metric], 250 mW Vishay	CRCW1206330KFKEA	resistors.SVNDblib	Vishay	CRCW1206330KFKEA	Farnell	1470007	Mouser	71-CRW1206-330K-E3	3
#	R48		56k SMD thick film resistor 56k 0603 1% 100 mW Panasonic	ERJ3EK5602V	resistors.SVNDblib	Panasonic	ERJ3EK5602V	Digi-Key	P56.0KHCT-ND	Mouser	667-ERI-3EK5602V	1
#	R55		618 SMD thick film resistor 618 1206 1% 660 mW Panasonic	ERJ3P6801V	resistors.SVNDblib	Panasonic	ERJ3P6801V	Mouser	667-ERI-P08F6801V			1
#	R59, R60, R61		0R039 Current Sense Resistors - SMD 2W 39 mOhm 1% 50ppm, KOA SPEER ELECTRONICS	TLRH3AWTTE39LDF	resistors.SVNDblib	KOA SPEER ELECTRONICS	TLRH3AWTTE39LDF	Mouser	660-TLRH3AWTTE39LDF	Digi-key	2019-TLRH3AWTTE39LDFR-ND	3
#	R62		10k SMD thick film resistor 10k 0603 1% 100 mW Panasonic	ERJ3EK1002V	resistors.SVNDblib	Panasonic	ERJ3EK1002V	Digi-Key	P10.0KHCT-ND	Mouser	667-ERI-3EK1002V	1
#	R66, R67, R69, R70, R72, R73, R75		1k SMD Chip Resistor, 1 kohm, ERJ3R Series, 50 V, Thick Film, 0603 [1608 Metric], 100 mW Panasonic	ERJ3R800101V	resistors.SVNDblib	Panasonic	ERJ3R800101V	Farnell	2379938	Mouser	667-ERI-3R801001V	7
#	R68		21k5 SMD thick film resistor 21k5 0603 1% 100 mW Panasonic	ERJ3EK2152V	resistors.SVNDblib	Panasonic	ERJ3EK2152V	Digi-Key	P21.5KHCT-ND	Mouser	667-ERI-3EK2152V	1
#	R74, R80, R83, R85, R86, R87		4k99 SMD Chip Resistor, 4.99 kohm, PCF Series, 75 V, Thin Film, 0603 [1608 Metric], 63 mW	PCF0603R-4K998T1	resistors.SVNDblib	TT Electronics	PCF0603R-4K998T1	Farnell	1160346	Mouser	756-PCF0603R-4K998T1	6
#	R76		215k SMD thick film resistor 215k 0603 1% 100 mW Panasonic	ERJ3EK2153V	resistors.SVNDblib	Panasonic	ERJ3EK2153V	Digi-Key	P215KHCT-ND	Mouser	667-ERI-3EK2153V	1
#	R77		680R SMD thick film resistor 680R 0603 1% 100 mW Panasonic	ERJ3EK6800V	resistors.SVNDblib	Panasonic	ERJ3EK6800V	Farnell	2303131	Mouser	667-ERI-3EK6800V	1
#	R82		3k SMD thick film resistor 3k 0603 1% 100 mW Panasonic	ERJ3EK3001V	resistors.SVNDblib	Panasonic	ERJ3EK3001V	Farnell	2059357	Mouser	667-ERI-3EK3001V	1
#	SAC1, SAC2, SHA1, SHA2, SHB1, SHB2, SHD1	M3x8 DIN7985	Pan head cross screw M3x8 DIN7985	M3x8_DIN7985	specials.SVNDblib							7
#	S81, S82, S83, S84, S85, S86	Spacer M3 F/F 50 HEX7	Steel spacer internal/internal M3x6 thread 50mm Würth Elektronik	97050021	specials.SVNDblib			Digi-Key	732-10660-ND	Würth Elektronik	970500321	6
#	SDA, SDB, SDD, SHC1, SHC2, SOA, SOB	M3x16 DIN7985	Pan head cross screw M3x16 DIN7985	M3x16_DIN7985	specials.SVNDblib							7
#	SHSA1, SHSA2, SHSB1, SHSB2	spacer for M3	steel brass spacer for M3	SPACER_M3_WF_983030042	mechanical.SVNDblib	Würth Elektronik	963030042	Digi-Key	732-12757-ND	Mouser	710-963030042	4
#	ST1, ST2, ST3, ST4, ST5, ST6	Spacer M3 M/F 6/30 HEX7	Steel spacer external/internal M3x6 thread 30mm Würth Elektronik	97130031	specials.SVNDblib			Digi-Key	732-10465-ND	Würth Elektronik	971300311	6
#	TP1, TP2	RED	PTH testpoint eyelet 3.2mm red Keystone Electronics	5005	connectors.SVNDblib	Keystone Electronics	5005	Digi-Key	36-5005-ND	Mouser	534-5005	2
#	TP3, TP7, TP24	ORANGE	PTH testpoint eyelet 3.2mm orange Keystone Electronics	5008	connectors.SVNDblib	Keystone Electronics	5008	Digi-Key	36-5008-ND	Mouser	534-5008	3
#	TP4, TP18, TP21	WHITE	PTH testpoint eyelet 3.2mm white Keystone Electronics	5007	connectors.SVNDblib	Keystone Electronics	5007	Digi-Key	36-5007-ND	Mouser	534-5007	3
#	TP5, TP9, TP13, TP22	BROWN	PTH testpoint eyelet 3.2mm brown Keystone Electronics	5120	connectors.SVNDblib	Keystone Electronics	5120	Digi-Key	36-5120-ND	Mouser	534-5120	4
#	TP6, TP7, TP8, TP10, TP11, TP12, TP14, TP25, TP26	YELLOW	PTH testpoint eyelet 3.2mm yellow Keystone Electronics	5009	connectors.SVNDblib	Keystone Electronics	5009	Digi-Key	36-5009-ND	Mouser	534-5009	9
#	TP15, TP16	BLUE	PTH testpoint eyelet 3.2mm blue Keystone Electronics	5122	connectors.SVNDblib	Keystone Electronics	5122	Digi-Key	36-5122-ND	Mouser	534-5122	2
#	TP20, TP23, TP28	PURPLE	PTH testpoint eyelet 3.2mm purple Keystone Electronics	5124	connectors.SVNDblib	Keystone Electronics	5124	Digi-Key	36-5124-ND	Mouser	534-5124	3
#	TP27	BLACK	PTH testpoint eyelet 3.2mm black Keystone Electronics	5006	connectors.SVNDblib	Keystone Electronics	5006	Digi-Key	36-5006-ND	Mouser	534-5006	1
#	TR1, TR2	750314724	Custom transformer for PFC	750314724	transformers.SVNDblib	Würth Elektronik	750314724	Würth Elektronik	750314724			2
#	U1	NCP1632	2-Phase PFC Controller, 10V to 20V Supply, 50 µA Startup, 3.5mA Operating, 30kHz, SOIC-16	NCP1632DR2G	ics.SVNDblib	ON Semiconductor	NCP1632DR2G	Farnell	2835619	Mouser	863-NCP1632DR2G	1
#	U2	NFAQ1060L36T	Inverter Intelligent Power Module (IPM), 600 V, 10 A	NFAQ1060L36T	ics.SVNDblib	ON Semiconductor	NFAQ1060L36T	ON Semiconductor	not official			1
#	U3, U4, U5	NCS2003SN2T1G	Low voltage rail to rail op amp, ON Semiconductor	NCS2003SN2T1G	ics.SVNDblib	ON Semiconductor	NCS2003SN2T1G	Farnell	2860549	Mouser	863-NCS2003SN2T1G	3
#	U7	TLV431	Low Voltage Precision Adjustable Shunt Regulator 1.24 - 16 V output, 20mA ±0.2%	TLV431CSN1T1G	ics.SVNDblib	ON Semiconductor	TLV431CSN1T1G	Mouser	863-TLV431CSN1T1G	Digi-Key	TLV431CSN1T1GOSTR-ND	1
#	WAC1, WAC2, WHSA1, WHSA2, WHSB1, WHSB2, WPDA, WPDB, WPDD, WPQA, WPQB, WSHC1, WSHC2, WSHD1	plain washer M3 DIN125A	Plain washer for M3 screw according DIN125A	M3_DIN125A	specials.SVNDblib							14
#	WHAD, WHAQ, WHBD, WHBQ	AOS 220 18x12x1.5 D3.1	Ceramic insulation washer with hole for TO220 1.5mm Fischer Elektronik	AOS220	specials.SVNDblib			Fischer Elektronik	AOS 220			4
#	WSDA, WSDB, WSDD, WSQA, WSQB	spring washer M3 DIN7980	Spring lock washer for M3 screw according DIN7980	M3_DIN7980	specials.SVNDblib							5