



Project -
 Title **VME FMC Carrier**
 EDA Number **EDA-02030-V1-0**
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Rev.
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Ref	Qty	Scem	Description	Val&Device	Manufacturer P/N	Case
R1 R3, R4 R16, R17 R28, R29 R45 > R47 R54 R57 R65 R67 R79 R86 R91 R96 R106 > R108 R118, R119 R123 > R125 R130 R134 R137 R141 R145, R146 R149, R150 R219 R224 R227 R229 R231 R238, R239 R253 R262, R263 R279 R283 R286	47		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	10k	GENERIC R0402_10K_1%_0.0625W_100PPM	0402
R2 R10 R13 R25	4		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	3k	GENERIC R0402_3K_1%_0.0625W_100PPM	0402
R5 > R9 R11, R12 R14, R15 R18 > R23 R80 > R83 R87 > R90	23		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	1k3	GENERIC R0402_1K3_1%_0.0625W_100PPM	0402
R24, R30	2		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	100k	GENERIC R0402_100K_1%_0.0625W_100PPM	0402
R26, R53	2		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	3k57	GENERIC R0603_3K57_0.1%_0.063W_10PPM	0603
R27	1		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	2k87	GENERIC R0603_2K87_0.1%_0.063W_10PPM	0603
R31 R41 R66 R70 R120 R162, R163 R176, R177 R202, R203 R251, R252	13		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	100	GENERIC R0402_100R_1%_0.0625W_100PPM	0402

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R32 > R40 R43, R44 R55, R56 R71 > R78 R139, R140 R142, R143 R147, R148 R153, R154 R212 R214 R232 R240, R241 R276, R277	36		±1% 0.1W ±100ppm/°C General Purpose Thick Film Chip Resistor	4k7	GENERIC R0603_4K7_1%_0.1W_100PPM	0603
R42 R213 R215 R217, R218 R220 > R223 R225, R226 R233, R234 R236, R237 R264 > R269 R278 R280, R281 R287	25		1A (0.05R Max DC Resistance) Zero Ohm Jumper	0	GENERIC R0603_0R_JUMPER	0603
R48 R51 R61	3		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	2k49	GENERIC R0603_2K49_0.1%_0.063W_10PPM	0603
R49, R50 R60	3		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	4k99	GENERIC R0603_4K99_0.1%_0.063W_10PPM	0603
R52	1		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	1k15	GENERIC R0603_1K15_0.1%_0.063W_10PPM	0603
R58, R59 R62 R64	4		±1% 0.125W ±100ppm/°C General Purpose Thick Film Chip Resistor	2M2	GENERIC R0805_2M2_1%_0.125W_100PPM	0805
R63	1		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	30	GENERIC R0402_30R_1%_0.0625W_100PPM	0402
R68, R69 R92 R94, R95 R98 > R105 R109 R111 > R117 R121, R122 R144 R164 R166 R205, R206 R235 R242	30		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	51	GENERIC R0402_51R_1%_0.0625W_100PPM	0402
R84, R85 R228 R230 R274, R275	6		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	1k	GENERIC R0402_1K_1%_0.0625W_100PPM	0402
R93 R133 R172 R175	4		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	5k1	GENERIC R0402_5K1_1%_0.0625W_100PPM	0402
R97 R135 R183 R185	4		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	4k12	GENERIC R0603_4K12_0.1%_0.063W_10PPM	0603
R110	1		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	240	GENERIC R0402_240R_1%_0.0625W_100PPM	0402
R126 > R129	23		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	200	GENERIC R0402_200R_1%_0.0625W_100PPM	0402

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R132 R136 R138 R171 R174 R184 R188 > R193 R200, R201 R207 > R211						
R131 R170 R173	3		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	1k6	GENERIC R0402_1K6_1%_0.0625W_100PPM	0402
R151, R152 R159 > R161 R167, R168 R179, R180 R182 R282	11		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	1k1	GENERIC R0402_1K1_1%_0.0625W_100PPM	0402
R155 > R158 R165 R178 R186, R187 R196 > R198 R204	12		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	150	GENERIC R0402_150R_1%_0.0625W_100PPM	0402
R169, R181	2		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	5k6	GENERIC R0402_5K6_1%_0.0625W_100PPM	0402
R194, R195	2		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	2k4	GENERIC R0402_2K4_1%_0.0625W_100PPM	0402
R216	1		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	910	GENERIC R0402_910R_1%_0.0625W_100PPM	0402
R284	1		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	2k37	GENERIC R0603_2K37_0.1%_0.063W_10PPM	0603
R285	1		±0.1% 0.063W ±10ppm Thin Film Chip Resistor	6k98	GENERIC R0603_6K98_0.1%_0.063W_10PPM	0603
C1 C5 > C7 C11, C12 C17, C18 C20, C21 C23 > C25 C44 C48 > C50 C57 > C63 C65 > C69 C73 C84, C85 C89	33		±20% 6.3V X5R SMD Multilayer Chip Ceramic Capacitor	100uF	GENERIC CC1210_100UF_6.3V_20%_X5R	1210
C2 C8, C9 C36 C86 C88 C90 C92	8		±20% 6.3V X5R SMD Multilayer Chip Ceramic Capacitor	22uF	GENERIC CC0805_22UF_6.3V_20%_X5R	0805
C3 C10 C94 > C96 C98 > C126 C128, C129 C131 > C135 C137, C138 C153, C154 C163 > C165 C169, C170 C183 > C187 C204 C209	195		±10% 16V X7R SMD Multilayer Chip Ceramic Capacitor	100nF	GENERIC CC0402_100NF_16V_10%_X7R	0402

Ref	Qty	Scem	Description	Val&Device	Manufacturer P/N	Case
C211, C212 C214 C224 > C228 C235 C238 C240 C242 C245, C246 C252, C253 C264, C265 C271 > C279 C286, C287 C291 C293 > C298 C301, C302 C305 > C307 C310 C313 > C356 C373, C374 C376 C381 C383 C385 C387 C389 C402, C403 C433, C434 C444 C454 C460, C461 C481 > C516						
C4 C127 C139, C140 C145, C146 C150 > C152 C158 C161, C162 C166 C171 > C174 C176 C178 C180 C182 C190 C193 > C203 C205 C208 C210 C215 C217 > C223 C230 C232 > C234 C239 C247 C256 C261, C262 C266, C267 C270 C283 C288 > C290 C292	115		±20% 4V X5R SMD Multilayer Chip Ceramic Capacitor	4.7uF	GENERIC CC0402_4.7UF_4V_20%_X5R	0402

Ref	Qty	Scem	Description	Val&Device	Manufacturer P/N	Case
C357 C360 C364 C366 C371, C372 C375 C378 C382 C388 C390, C391 C394 C396, C397 C400 C405 C407 > C415 C420 > C429 C432 C435 C438, C439 C442, C443 C455 C459 C462 C464 > C466 C468 C471 C473 C476 C479, C480						
C13 > C16 C19 C22 C26 > C35 C37 > C40	20		±5% 50V NP0 SMD Multilayer Chip Ceramic Capacitor	100pF	GENERIC CC0402_100PF_50V_5%_NP0	0402
C41 C45 C64 C70	4		±10% 10V Solid Tantalum Chip Capacitor	330uF	GENERIC CTE7343-31_330UF_10V_10%	D
C42, C43 C46, C47 C75 > C83	13		±10% 6.3V Solid Tantalum Chip Capacitor	470uF	GENERIC CTE7343-31_470UF_6.3V_10%	D
C51, C52 C54, C55 C71 C74 C87 C91 C130 C136 C213 C241	12		±10% 16V X5R SMD Multilayer Chip Ceramic Capacitor	10uF	GENERIC CC0805_10UF_16V_10%_X5R	0805
C53 C56 C72 C93	4		±20% 16V Low ESR 0R056, Radial Lead, Aluminum Electrolytic Capacitor, (FR Serie, Type A)	470uF	PANASONIC EEUFR1C471	LS3.5 D8.5 x H13
C97	1		±10% 16V X7R SMD Multilayer Chip Ceramic Capacitor	33nF	GENERIC CC0402_33NF_16V_10%_X7R	0402
C141 C143, C144 C147 C149 C156 C159, C160	35		±10% 6.3V X5R SMD Multilayer Chip Ceramic Capacitor	220nF	GENERIC CC0402_220NF_6.3V_10%_X5R	0402

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C254 C258 C268, C269 C280 > C282 C284, C285 C308 C311 C361 > C363 C365 C367, C368 C370 C377 C458 C467 C469, C470 C472 C474, C475 C478						
C142 C148 C155 C157 C167, C168 C175 C177 C179 C181 C188, C189 C191, C192 C206, C207 C216 C229 C231 C236, C237 C248 > C251 C257 C259, C260 C263 C358, C359 C369 C379, C380 C384 C386 C392, C393 C395 C398, C399 C401 C404 C406 C416 > C419 C430, C431 C436, C437 C440, C441 C445 > C453 C456, C457 C463 C477	67		±10% 6.3V X5R SMD Multilayer Chip Ceramic Capacitor	470nF	GENERIC CC0402_470NF_6.3V_10%_X5R	0402
C243 C299 C303	3		±5% 50V NP0 SMD Multilayer Chip Ceramic Capacitor	220pF	GENERIC CC0402_220PF_50V_5%_NP0	0402
C244 C300	3		±10% 16V X7R SMD Multilayer Chip Ceramic Capacitor	22nF	GENERIC CC0402_22NF_16V_10%_X7R	0402

Ref	Qty	Scem	Description	Val&Device	Manufacturer P/N	Case
C304						
C255 C309 C312	3		±10% 50V X7R SMD Multilayer Chip Ceramic Capacitor	1nF	GENERIC CC0402_1NF_50V_10%_X7R	0402
L1, L2	2		±20% 360mA Wire Wound Chip Inductors	4.7uH	KEMET L0805C4R7MDWIT	0805
L3 > L6	4		±5% 250mA SMT Inductors SIMID Series	1uH	EPCOS B82498B1102J	0805
IC1 IC25 > IC27 IC43	5		Single Output LDO, 3.0A, Adj.(0.8 to 3.3V), Fast Transient Response, Programmable SoftStart	TPS74401RGWT	TEXAS INSTRUMENTS TPS74401RGWT	QFN20
IC2 IC5 IC7 IC9 IC15, IC16 IC21, IC22 IC28, IC29 IC31 > IC33 IC35 IC42	15		8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers with 3-State Outputs	SN74VMEH22501DGGR	TEXAS INSTRUMENTS SN74VMEH22501DGGR	TSSOP48
IC3	1		1 GSPS, 14-Bit, 3.3 V CMOS Direct Digital Synthesizer	AD9910BSVZ	ANALOG DEVICES AD9910BSVZ	QFP100
IC4	1		3.3V Sink/Source DDR Termination Regulator	TPS51200DRCT	TEXAS INSTRUMENTS TPS51200DRCT	SON10
IC6 IC12 IC17, IC18	4		14-Output Clock Generator with Integrated 1.6 GHz VCO	AD9516-4BCPZ	ANALOG DEVICES AD9516-4BCPZ	QFN64
IC8	1		16 Meg x 16 x 8 Banks DDR3 SDRAM, +1.5V Supply	MT41J128M16HA-15E	MICRON TECHNOLOGY MT41J128M16HA-15E	BGA96
IC10, IC34	2		SPARTAN-6, FPGA, 396 User I/Os, 8 GTPs, 676-Ball BGA, Commercial Grade, Pb-Free	XC6SLX150T-2FGG676C	XILINX XC6SLX150T-2FGG676C	BGA676
IC11	1		Quad, 16-Bit DAC with 1.25V 5ppm/°C On-Chip Reference	AD5666BRUZ-1	ANALOG DEVICES AD5666BRUZ-1	TSSOP14
IC13	1		Programmable Resolution 1-Wire Digital Thermometer (-55°C to +125°C)	DS18B20U+	DALLAS MAXIM DS18B20U+	uSOP8
IC14	1		2.7 V to 5.25 V, Micro Power, 8-Channel, 125 kSPS, 12-Bit ADC	AD7888AR	ANALOG DEVICES AD7888AR	SOIC16
IC19, IC20	2		128 Mbit (Multilevel), Low-Voltage, Serial Flash Memory With 50-MHz SPI Bus Interface	M25P128-VMF6G	NUMONYX M25P128-VMF6G	
IC23	1		High-Speed Differential Line Drivers And Receivers	SN65LVDM051D	TEXAS INSTRUMENTS SN65LVDM051D	SOIC16
IC24 IC39 > IC41	4		6A, 2.2V to 5.5V Input, Non-Isolated, 0.69 to 3.6V Output, Adjustable Power Modue With TurboTrans™	PTH04T230WAZ	TEXAS INSTRUMENTS PTH04T230WAZ	
IC30	1		3.3V to -2V, Iout (max) 5A, 10 Watt Plus to Minus Voltage Converter	PT6914C	TEXAS INSTRUMENTS PT6914C	
IC36, IC37	2		72-Mbit (2M x 36) Pipelined 3.3VSRAM with NoBL Architecture	CY7C1470BV33-167BZXC	CYPRESS CY7C1470BV33-167BZXC	BGA165
IC38	1		3.3V to -5.2V, Iout (max) 2.5A, 12 Watt Plus to Minus Voltage Converter	PT6915C	TEXAS INSTRUMENTS PT6915C	
IC44	1		10k, 10-Bit, Nonvolatile Linear-Taper Digital Potentiometer	MAX5483EUD+	MAXIM MAX5483EUD+	TSSOP 14
LD1 > LD23	23		Low current chip LED SML-311 Serie		ROHM SML-311UTT86K	
LD24, LD25	2		Quad-Level 2mm HE Red, PCB Edge Mounting		BIVAR H485CHDL	
OSC1	1		10-280MHz 3.3V ±20ppm LVDS Any-Rate I2C Programmable XO Oscillator Si570 Serie	10-280MHz	SILICON LABS 570BBC000121DG	
OSC2	1		11pF 3.3V ±1ppm Surface Mount TCXO Voltage Controlled Oscillator (CFPT-125 Serie)	25MHz	RAKON IVT3205CR 25.0 MHz	
T1 > T8	8		50V 200mA N-Channel Enhancement Mode Field-Effect Transistor	BSH103	NXP SEMICONDUCTORS BSH103	SOT23-3
CageBot1, CageBot2	2		Cage bottom For Single Port SFP (Small Form-factor Pluggable)		TYCO ELECTRONICS TYCO_6367034-1	
CageTop1, CageTop2	2		Cage Top For Single Port SFP (Small Form-factor Pluggable)		TYCO ELECTRONICS TYCO_6367035-1	
J1	1		2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, 14 Circuits, with Locking Windows and Centre Polarization Slot, PCB Locator		MOLEX 87832-1420	
J2, J4	2		20 Position, Pitch 0.8mm SFP Receptacle (Small Form-factor Pluggable)		TYCO ELECTRONICS 1367073-1	
J3, J8	2		Up to 6GHz Ultra Small Surface Mount Male Coaxial Connectors U.FL Series		HIROSE (HRS) U.FL-R-SMT-1(10)	
J6, J7	2	09.46.11.188.8	Size 00 ,Low Profile Dual 50 Ohms Coaxial Elbow Sockets (90°)		LEMO EPY.00.250.NTNY	
J9, J10	2		400 contacts (10 rows abcdefghj) Surface Mount Female Connector, VITA 57		SAMTEC ASP-134486-01	
P1, P3	2		DIN 41612, har-bus 64, 160 poles,5 Rows z+a+b+c+d, Angled solder pins, Male contacts, Pitch 2.54mm		HARTING 02 01 160 2101	
P2	1		Type B19, 95 Contacts (abcde) Female Connector, Angled, HAR-BUS HM with Pre-installed Upper Shield (f), Pitch 2mm		HARTING 17 25 095 2102	
SW2, SW4	2	09.55.10.950.1	Insulated Red Jumper Pitch 2.54mm		KONTEK COMATEL 313.1730.0.00.40.2	
SW3	3	07.88.24.516.1	Male Jumper Pitch 10.16mm		KONTEK COMATEL 313.0004.0.00.500	
SW5, SW6						
W1 > W6	1(6)	09.55.10.708.9	1 Out of 8 Contacts of Straight Strip Header Pitch 2.54mm L=6.3mm "Mini-Wire-Wrap"		KONTEK COMATEL 386.0358.1.08.440	
F1 > F9 F11 F13 > F15	13		Thin Film Chip Fuse	2.5A-24V	BOURNS SF-0603F250-2	
F10, F12	2		Thin Film Chip Fuse	3A-24V	BOURNS SF-0603F300-2	
PB1	1		12VDC 50mA SPST Tactile Push-Button Switch		TYCO ALCOSWITCH FSM2JSMA or 2-1437565-7	

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SW1	1		8 Way SPST SMD DIP Switch, Latched, Contact Rating 0.025A 24VDC		TYCO 1-1571983-0 or GDH08S04	
Not Mounted						
R199	1		±1% 0.0625W ±100ppm/°C General Purpose Thick Film Chip Resistor	100	GENERIC R0402_100R_1%_0.0625W_100PPM	0402
R243 > R250	20		1A (0.05R Max DC Resistance) Zero Ohm Jumper	0	GENERIC R0603_0R_JUMPER	0603
R254 > R261						
R270 > R273						
J5	1		Right-Angle, Upright Plug, Through-Hole External Serial ATA Plug (eSATA)		FCI 10074141-001LF	
		Dimension : 160 x 233.3 mm	Through pins: SMD pins on TOP: SMD pins on BOTTOM: Total nb of pins:			