

FDC1004EVM

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPCB	1		Printed Circuit Board		SV601093	Any		
C1	1	0.1uF	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	0402	C1005X5R0J104K	TDK		
C2	1	10uF	CAP, CERM, 10uF, 10V, +/-20%, X5R, 0603	0603	C1608X5R1A106M	TDK		
C3, C5, C11, C19	4	0.1uF	CAP CER 0.1uF 16V 5% X7R 0402	0402	GRM155R71C104JA88D	Murata Electronics North Ame		
C4	1	0.01uF	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0603	0603	C1608C0G1E103J	TDK	-	-
C6	1	220PF	CAP CER 220PF 50V 1% NP0 0402	0402	C1005C0G1H221F050B A	TDK Corporation		
C7	1	2200pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603	C0603X222K5RACTU	Kemet	-	-
C8, C9	2	18pF	CAP, CERM, 18pF, 100V, +/-5%, C0G/NP0, 0603	0603	GRM1885C2A180JA01D	MuRata		
C10	1	220pF	CAP, CERM, 220pF, 50V, +/-1%, C0G/NP0, 0603	0603	06035A221FAT2A	AVX	-	-
C15	1	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	0603	C0603C225K8PACTU	Kemet		
C17	1	0.47uF	CAP, CERM, 0.47uF, 10V, +/-10%, X7R, 0603	0603	C0603C474K8RACTU	Kemet	-	-
C20	1	1uF	CAP, CERM, 1uF, 6.3V, +/-20%, X5R, 0402	0402	C1005X5R0J105M	TDK		
D1	1	Green	LED, Green, SMD	1.7x0.65x0.8mm	LG L29K-G2J1-24-Z	OSRAM		
D2	1	Super Red	LED, Super Red, SMD	LED, 1.6x.6x.8mm	SML-LX0603SRW-TR	Lumex		
D21	1	5.6V	Diode, Zener, 5.6V, 500mW, SOD-123	SOD-123	MMSZ5232B-7-F	Diodes Inc.	-	-
FID1, FID2, FID3	3		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
J3	1		Connector, USB Type A, 4POS R/A, SMD	Edge mount USB A CONN	48037-2200	Molex		
L1	1	10uH	Inductor, Shielded, Ferrite, 10uH, 0.4A, 1.38 ohm, SMD	2.0x0.95x1.6mm	VLS201610ET-100M	TDK		
R5	1	33k	RES, 33k ohm, 5%, 0.063W, 0402	0402	CRCW040233K0JNED	Vishay-Dale	-	-
R6, R7	2	1.0k	RES, 1.0k ohm, 5%, 0.063W, 0402	0402	CRCW04021K00JNED	Vishay-Dale		
R8, R9	2	33	RES, 33 ohm, 5%, 0.063W, 0402	0402	CRCW040233R0JNED	Vishay-Dale	-	-
R10, R11	2	4.99k	RES, 4.99k ohm, 1%, 0.063W, 0402	0402	CRCW04024K99FKED	Vishay-Dale		
R20	1	1M	RES, 1M ohm, 5%, 0.063W, 0402	0402	RC0402JR-071ML	Yageo	-	-
R40	1	1.5K	RES 1.5K OHM 1/16W 5% 0402 SMD	0402	CRCW04021K50JNED	Vishay Dale	-	-
U1	1		4-Channel Capacitance-to-Digital Converter for Capacitive Sensing Solutions, DSC0010B	DSC0010B	FDC1004DSC	Texas Instruments		None
U2	1		4-CHANNEL ESD-PROTECTION ARRAY FOR HIGH-SPEED DATA INTERFACES, DRY006A	DRY0006A	TPD4E004DRY	Texas Instruments		None
U3	1		Mixed Signal MicroController, RGC0064B	RGC0064B	MSP430F5528IRGC	Texas Instruments		None
U4	1		Micropower 150 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23, Pb-Free	MF05A	LP2985AIM5-3.3/NOPB	Texas Instruments		
Y1	1		Crystal, 24.000MHz, 18pF, SMD	Xtal, 7.2x1.3x5.2mm	ABMM-24.000MHZ-B2-T	Abracon Corporation		
COFF	0	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1535C1H101JDD5D	MuRata		
CS1, CS2	0	51pF	CAP, CERM, 51pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H510JA01D	MuRata		
J1, J2	0		Header, TH, 100mil, 4x1, Gold plated, 230 mil above insulator	4x1 Header	TSW-104-07-G-S	Samtec		
J4	0		Receptacle, 50mil 10x1, R/A, TH	receptacle 10x1, 50mil	851-43-010-20-001000	Mill-Max		
J5	0		Header, male, 10x1, 50mil, RA, TH	13.11x2.2x7 mm	850-80-010-20-001101	Preci-Dip		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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