fiXtress® BQR

Assembly Composite Report

Prediction Method: FIDES_2009, Calculation Method: , Mission Profile: Level 3

Block Stress Source (P, V, I)			
WUC	**Path**	**RefDes**	**Stress Source**
1		System	-
1_1	System	2	-

Assembly RefDes:System, ID:1, Description:-

Environment: GB, Temperature: 0.0°C, F.R.(xE-6): 0.104645, MTBF(hours): 9.55612e+06

ID	Part Number	RefDes	Description	Qty	F.R.(xE-6)	F.R.(xE-6)xQty	Contrib. to NHA[%]
1_1		2	2 -	1	0,104645	0,104645	100

Assembly RefDes:2, ID:1_1, Description:-

Environment: GB, Temperature: 0.0°C, F.R.(xE-6): 0.104645, MTBF(hours): 9556.12

ID	Part Number	RefDes	Description	Qty	F.R.(xE-6)	F.R.(xE-6)xQty	Contrib. to NHA[%]
1_1_46	TLV76733DRVT	U13	3.3V/1A - Small Size - Low-Dropout Linear Voltage Regulator - Voltage Input Range: 2.5V to 16V	1	0,0148504	0,0148504	14,19
1_1_47	TPS3701DDCR	U14	Open-Drain window voltage supervisor - Operating Supply voltage Range: 1.8V to 36V	1	0,0144547	0,0144547	13,81
1_1_50	TPS3701DDCR	U17	Open-Drain window voltage supervisor - Operating Supply voltage Range: 1.8V to 36V	1	0,0144547	0,0144547	13,81
1_1_49	TPS3701DDCR	U16	Open-Drain window voltage supervisor - Operating Supply voltage Range: 1.8V to 36V	1	0,0144547	0,0144547	13,81
1_1_48	TPS3701DDCR	U15	Open-Drain window voltage supervisor - Operating Supply voltage Range: 1.8V to 36V	1	0,0144547	0,0144547	13,81
1_1_51	STM32F401RET6	U18	Microcontrôleurs ARM - MCU STM32, ARM Cortex-M4 core with DSP and FPU, 512 Kbytes Flash, 84 MHz CPU	1	0,00958854	0,00958854	9,16
1_1_52	TPS3808G33DRVR	U19	Low-Quiescent-Current - Programmable-Delay Supervisory Circuit - Open-Drain output - Adjustable Rese	1	0,0048511	0,0048511	4,64
1_1_16	APHHS1005LZGCK-V	LED2	Top Emitting Green Led - 2mA - 4.95mcd - Vf = 1.8V - 570nm	1	0,00191443	0,00191443	1,83
1_1_17	598-8391-117F	LED3	Side Emitting MicroLED® SMD LED - Blue Color - Right Angle - VF = 3.2V - 170mcd @20mA	1	0,00169529	0,00169529	1,62
1_1_5	CL10B475KQ8NQNC	C14	Ceramic capacitor - 0603 - X7R - 4.7µF/6.3V - 10	1	0,00151943	0,00151943	1,45
1_1_7	CL10B475KQ8NQNC	C17	Ceramic capacitor - 0603 - X7R - 4.7µF/6.3V - 10	1	0,00134811	0,00134811	1,29
1_1_8	C0603C105K3RACTU	C3	Ceramic capacitor - 0603 - X7R - 1µF/25V - 10	1	0,00134811	0,00134811	1,29
1_1_13	C0201C103K4PACTU	C8	Ceramic capacitor - 0201 - X5R - 10nF/16V - 10	1	0,00134811	0,00134811	1,29
1_1_10	C0201C103K4PACTU	C5	Ceramic capacitor - 0201 - X5R - 10nF/16V - 10	1	0,00134811	0,00134811	1,29
1_1_11	04023C103KAT2A	C6	Ceramic capacitor - 0402 - X7R - 10nF/25V - 10	1	0,00134811	0,00134811	1,29

1_1_18	PMZB290UNE2YL	Q1	20 V - 1.2A - N-channel Trench MOSFET	1	0,000797797	0,000797797	0,76
1_1_9	C0603C225K8RACTU	C4	Ceramic capacitor - 0603 - X7R - 2.2µF/10V - 10	1	0,000533038	0,000533038	0,51
1_1_12	C0201C103K4PACTU	C7	Ceramic capacitor - 0201 - X5R - 10nF/16V - 10	1	0,000483442	0,000483442	0,46
1_1_2	CL03A104KO3NNNC	C11	Ceramic capacitor - 0201 - X5R - 100nF/16V - 10	1	0,00028445	0,00028445	0,27
1_1_3	CL03A104KO3NNNC	C12	Ceramic capacitor - 0201 - X5R - 100nF/16V - 10	1	0,00028445	0,00028445	0,27
1_1_4	CL03A104KO3NNNC	C13	Ceramic capacitor - 0201 - X5R - 100nF/16V - 10	1	0,00028445	0,00028445	0,27
1_1_6	CL03A104KO3NNNC	C15	Ceramic capacitor - 0201 - X5R - 100nF/16V - 10	1	0,00028445	0,00028445	0,27
1_1_1	CL03A104KO3NNNC	C10	Ceramic capacitor - 0201 - X5R - 100nF/16V - 10	1	0,00028445	0,00028445	0,27
1_1_14	CL03A104KO3NNNC	C9	Ceramic capacitor - 0201 - X5R - 100nF/16V - 10	1	0,00028445	0,00028445	0,27
1_1_15	53398-0871	J1	1.25mm Pitch PicoBlade" Header - Surface Mount - Vertical - Lead-free - 8 Circuits - Maximum curren	1	0,000231558	0,000231558	0,22
1_1_19	RC0402FR-07383KL	R10	SMD resistor - 383k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_20	RC0402FR-07383KL	R11	SMD resistor - 383k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_28	RC0402FR-076K81L	R19	SMD resistor - 6.81k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_29	RC0402FR-0730K9L	R20	SMD resistor - 30.9k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_30	RC0402FR-0730K9L	R21	SMD resistor - 30.9k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_31	RC0402FR-0730K9L	R22	SMD resistor - 30.9k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_32	RC0402FR-0730K9L	R23	SMD resistor - 30.9k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_33	RC0603FR-0722RL	R24	SMD resistor - 22& - 1 - 0603 - 100mW	1	7,09E-05	7,09E-05	0,07
1_1_34	RC0402FR-0722RL	R25	SMD resistor - 22& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_35	RC0402FR-0722RL	R26	SMD resistor - 22& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_36	RC0402FR-0722RL	R27	SMD resistor - 22& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_37	RC0402FR-0722RL	R28	SMD resistor - 22& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_38	RC0402FR-0710KL	R29	SMD resistor - 10k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_39	CRCW0402470RFKEDC	R30	SMD resistor - 470& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_26	RC0402FR-076K81L	R17	SMD resistor - 6.81k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_41	RC0402FR-0710KL	R32	SMD resistor - 10k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_42	RC0402FR-0710KL	R33	SMD resistor - 10k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_43	CRCW0402330RFKEDC	R7	SMD resistor - 330& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_44	RC0402FR-07383KL	R8	SMD resistor - 383k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_45	CRCW0402976KFKED	R9	SMD resistor - 976k& - 1 - 0402 - 63mW - AEC-Q200	1	7,09E-05	7,09E-05	0,07
1_1_27	RC0402FR-076K81L	R18	SMD resistor - 6.81k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_25	RC0402FR-076K81L	R16	SMD resistor - 6.81k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07
1_1_24	CRCW0402100KFKED	R15	SMD resistor - 100k - 1 - 0402 - 63mW - AEC-Q200	1	7,09E-05	7,09E-05	0,07
1_1_23	CRCW0402100KFKED	R14	SMD resistor - 100k - 1 - 0402 - 63mW - AEC-Q200	1	7,09E-05	7,09E-05	0,07
1_1_22	CRCW0402100KFKED	R13	SMD resistor - 100k - 1 - 0402 - 63mW - AEC-Q200	1	7,09E-05	7,09E-05	0,07
1_1_21	CRCW0402100KFKED	R12	SMD resistor - 100k - 1 - 0402 - 63mW - AEC-Q200	1	7,09E-05	7,09E-05	0,07
1_1_40	RC0402FR-0710KL	R31	SMD resistor - 10k& - 1 - 0402 - 63mW	1	7,09E-05	7,09E-05	0,07

End of Report