

CARE® BQR, FMECA Ver.9.300

Block Criticality (Item Cr) List

Master Project Name - - Mission Name - Mission 1
 FMECA Project Name - FMECA3 Phase Name - Phase 1
 Project Notes - - Phase Time [hrs] - 1000

Total criticality of root block - 0.000314794

| Blocks Risk Matrix (Quantity for Internal Causes only) | | | | | | |
|--|---------------------------|----------|----|-----|----|---|
| CRITICALITY | | SEVERITY | | | | |
| Group | Range | V | IV | III | II | I |
| a | b | d | | | | |
| A | 6.29587e-05 - 0.000314794 | 0 | 1 | 0 | 1 | 0 |
| B | 3.14794e-05 - 6.29587e-05 | 0 | 0 | 0 | 0 | 0 |
| C | 3.14794e-06 - 3.14794e-05 | 0 | 0 | 0 | 0 | 0 |
| D | 3.14794e-07 - 3.14794e-06 | 0 | 0 | 0 | 0 | 0 |
| E | 0 - 3.14794e-07 | 0 | 4 | 2 | 2 | 0 |

| Blocks Severity and Criticality (Internal Causes only) | | | | | | | | | | | | |
|--|-----|---------------|----------|--------|----------|--|--|--|-------------|--------------------------------|-------------------------------|----------|
| Region | Sev | Probab. Group | Block ID | RefDes | Function | Description | Qty per parent | Criticality Cr | Probability | Criticality Ratio for Severity | Criticality Ratio from System | |
| e | f | g | h | i | j | k | l | m | n | o | p | |
| 1 | II | A | 48 | U13 | | 3.3V/1A - Small Size - Low-Dropout Linear Voltage Regulator - Voltage Input Range: 2.5V to 16V | 1 | 0,000179914 | 0,000179886 | 0,999781 | 0,571531 | |
| 3 | II | E | 10 | C3 | | Ceramic capacitor - 0603 - X7R - 1µF/25V - 10% | 1 | 2,20E-08 | 2,20E-08 | 0,000122151 | 6,98E-05 | |
| | | | 11 | C4 | | Ceramic capacitor - 0603 - X7R - 2.2µF/10V - 10% | 1 | 1,74E-08 | 1,74E-08 | 9,69E-05 | 5,54E-05 | |
| | | | 35 | R24 | | SMD resistor - 22Ω - 1% - 0603 - 100mW | 1 | 5,78E-08 | 5,78E-08 | 0,5 | 0,000183505 | |
| | III | E | 40 | R29 | | SMD resistor - 10kΩ - 1% - 0402 - 63mW | 1 | 5,78E-08 | 5,78E-08 | 0,5 | 0,000183505 | |
| | | | IV | A | 48 | U13 | | 3.3V/1A - Small Size - Low-Dropout Linear Voltage Regulator - Voltage Input Range: 2.5V to 16V | 1 | 0,000134621 | 0,0001346 | 0,999234 |
| | E | 10 | | | C3 | | Ceramic capacitor - 0603 - X7R - 1µF/25V - 10% | 1 | 2,29E-08 | 2,29E-08 | 0,000169819 | 7,27E-05 |
| | | 11 | | | C4 | | Ceramic capacitor - 0603 - X7R - 2.2µF/10V - 10% | 1 | 1,81E-08 | 1,81E-08 | 0,000134692 | 5,76E-05 |
| | | | | 35 | R24 | | SMD resistor - 22Ω - 1% - 0603 - 100mW | 1 | 3,11E-08 | 3,11E-08 | 0,000230878 | 9,88E-05 |
| | | | 40 | R29 | | SMD resistor - 10kΩ - 1% - 0402 - 63mW | 1 | 3,11E-08 | 3,11E-08 | 0,000230878 | 9,88E-05 | |

End of Report