



# M T B F

(MIL-HDBK217F NOTICE 2)

|       |              |
|-------|--------------|
| Model | UMCS60F-24-E |
|-------|--------------|

| No.                                      | P a r t s              |                     | Q' ty of Device | Failure rate [10 <sup>-6</sup> /H] | R e f e r e n c e |
|--|------------------------|---------------------|-----------------|------------------------------------|-------------------|
| 1  | I C                    | M o n o l i t h i c | 2               | 1. 0270                            |                   |
| 2  |                        | H y b r i d         | 0               | 0. 0000                            |                   |
| 3  | T r a n s i s t o r s  |                     | 3               | 1. 1580                            |                   |
| 4  | D i o d e s            |                     | 7               | 0. 2370                            |                   |
| 5  | LED•Optocouplers       |                     | 2               | 0. 3650                            |                   |
| 6  | R e s i s t o r s      |                     | 42              | 0. 2400                            |                   |
| 7  | C a p a c i t o r s    |                     | 25              | 1. 6670                            |                   |
| 8  | Transformer•Choke Coil |                     | 6               | 0. 3790                            |                   |
| 9  | C o n n e c t o r s    |                     | 240             | 0. 0220                            |                   |
| 1 0                                      | O t h e r s            |                     | 6               | 0. 0380                            |                   |
| Total Failure Rate [10 <sup>-6</sup> /H] |                        |                     |                 | 5. 1330                            |                   |

|                     |      |         |
|---------------------|------|---------|
| M T B F             | [H]  | 194,800 |
| Ambient Temperature | [°C] | 40.0    |
| Load Factor         | [%]  | 100     |



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(E I A J R C R - 9 1 0 2)

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| No.                                      | P a r t s              |                     | Q' ty of Device | Failure rate [10 <sup>-6</sup> /H] | R e f e r e n c e |
|--|------------------------|---------------------|-----------------|------------------------------------|-------------------|
| 1  | I C                    | M o n o l i t h i c | 2               | 0.0980                             |                   |
| 2  |                        | H y b r i d         | 0               | 0.0000                             |                   |
| 3  | T r a n s i s t o r s  |                     | 3               | 0.1012                             |                   |
| 4  | D i o d e s            |                     | 7               | 0.1792                             |                   |
| 5  | LED•Optocouplers       |                     | 2               | 0.1400                             |                   |
| 6  | R e s i s t o r s      |                     | 42              | 0.3282                             |                   |
| 7  | C a p a c i t o r s    |                     | 25              | 0.2772                             |                   |
| 8  | Transformer•Choke Coil |                     | 6               | 0.1173                             |                   |
| 9  | C o n n e c t o r s    |                     | 240             | 0.1014                             |                   |
| 1 0                                      | O t h e r s            |                     | 6               | 0.1880                             |                   |
| Total Failure Rate [10 <sup>-6</sup> /H] |                        |                     |                 | 1.5305                             |                   |

|                     |      |         |
|---------------------|------|---------|
| M T B F             | [H]  | 653,000 |
| Ambient Temperature | [°C] | —       |
| Load Factor         | [%]  | —       |