COSEL

MTBF (EIAJ RCR-9102)

Model RBC200F Input module + Output module (Slot1)

No.	Model			failure rate[10^{-6}/H]	Reference
1	Input module + Output module (Slot1)	RBP200F-12 + RBS140B-12	Module code : V	4.260	
2		RBP200F-15 + RBS140B-15	Module code : W	4.260	
3		RBP200F-24 + RBS140B-24	Module code : Y	4.281	
4		RBP200F-48 + RBS140B-48	Module code : Z	4.013	

Model RBC300F Input module + Output module (Slot1)

No.	Model			failure rate[10^{-6}/H]	Reference
1	Input module + Output module (Slot1)	RBP300F-12	Module code : S	4.225	
2		RBP300F-24	Module code : T	4.304	
3		RBP300F-48	Module code : U	3.760	

Model Output module (Slot2,3)

No.	Model			failure rate[10^{-6}/H]	Reference
1	Output module (Slot2,3)	RBS15B-5	Module code : B	1.099	
2		RBS15B-12	Module code : C	0.929	
3		RBS15B-24	Module code : D	0.951	
4		RBS30B-3R3	Module code : G	1.256	
5		RBS30B-5	Module code : H	1.271	
6		RBS30B-12	Module code : J	1.229	
7		RBS30B-16R5	Module code : K	1.263	
8		RBS30B-24	Module code : L	1.130	
9		RBS30B-48	Module code : M	1.146	

Model Output module (Slot2 dedicated)

No.	Model			failure rate[10^{-6}/H]	Reference
1	Output module (Slot2)	RBW15B-12	Module code : E	1.046	
2		RBW15B-15	Module code : F	1.046	
3		RBW30B-12	Module code : P	1.230	
4		RBW30B-15	Module code : Q	1.246	

故障率とMTBFの算出法

Method of calculation for failure rate and MTBF

故障率 ＝ [入力モジュール + 出力モジュール(Slot1)の故障率]
+ Σ [組込まれる出力モジュール(Slot2,3)の故障率]

Failure rate = [Failure rate of input module + output module (Slot1)]
+ Σ [Failure rate of output module (Slot2,3) included in RB Series]

$$\text{MTBF} = \frac{1}{\text{故障率}} \text{ [H]}$$

$$\text{MTBF} = \frac{1}{\text{Failure rate}} \text{ [H]}$$