



**Reliability Report
(Q2016-007)**

**CPC1010N Single Pole, Normally Open 4-Lead
SOP OptoMOS Relay**

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Summary

The CPC1010N product have successfully passed IXYS ICD's requirements for product qualification.

Table 1: Device Information

Product Number	CPC1010N
Package Type	4L SOP
Assembly Site	ATEC Philippines
Test Site	IXYS ICD BEV, Beverly, MA, USA

Table 2: Reliability Test Result

Stress Test	Stress Conditions	Applicable Specs	Product/Package	Sample Size (SS)	# of Failures
HTRB	125°C, 80% WVDC, 1000 hrs	Mil-Std-883 M1005 JESD22-A-108	CPC1010N TE3460	100	0
Hot Storage	125C, 1000 hrs	JESD22-A103-C	CPC1010N TE3460	50	0

Table 3: ESD Results – 4L SOP

Stress Test	Stress Conditions	Applicable Specs	Product/Package	Highest Passed	Class
HBM	All Pins, 1.5kΩ, 100pF	JESD22- A114-E	CPC1010N TE3460	+/-8000V	3B

Table 4: FIT Rate Summary

Qual Lot #	Stress Test	# of Devices	# of Fail	Hours Tested	Equivalent Dev. Hours	FIT Rate @ 60% CL
1	HTRB	100	0	1000	25,540,597	36.02

* HTRB FIT Rate was calculated based on the Acceleration Factor (AF) and equivalent device hours at 0.7eV of activation energy at 125°C test temperature and 40°C use temperature.

Approvals

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 Martha W. Brandt Date
 Quality Engineer

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 Quality Manager

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