



ELECTRONICS TEST & DEVELOPMENT CENTRE

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TEST REPORT

TEST REPORT No. : T – 58218

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I. SCOPE:

1.	SERVICE REQUEST NUMBER	58218
2.	Test Requested by (Name of Organisation)	Paramount Industries No. 70, 5 th cross, S.S.I. area, Rajaji Nagar Bangalore-560010
3.	Test Carried Out at	M/s ETDC, Bangalore.
4.	Description of the Equipment	
	a) Nomenclature	Diode OR - ing Unit
	b). Manufactured by	M/s. PARAMOUNT Industries
	c). Model No / Type No.	P-OR-24-20
	d). No. of samples submitted	04
	e). Serial No.	--
5.	Date of submission of samples	29.05.2007
6.	Condition of items on receipt	Good
5.	Date of completion of tests	04.07.2007
6.	Applicable Test Specification	Customer requirement
7.	Test Category	Performance Test
8.	Env. Condition During measurements	Temp: 25- 27 ° C Humidity: 55-61 %

II. MAJOR EQUIPMENT USED:

Sl. No	Nomenclature	Make	Model	Cal. Due
1.	Breakdown & Insulation Tester	KMji	RM215G	Jul 2007
2.	Humidity Chamber	Weissteknik	WK1-340/70	Jun 2008
3.	Vibration Test System/	SDPL / LDS	275/830-35	Nov 2007
4.	Damp Heat Test Chamber	Wissteknik	WK1-1000/4	July 2007

THIS REPORT REFERS ONLY TO THE ITEM TESTED AND SHALL NOT BE REPRODUCED EXCEPT IN FULL. REFER INSTRUCTIONS ON THE COVER.



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Item : Diode OR ing Unit
Type/Model No. : P-OR-24-20

Sl.No. : --
Specification : Customer requirement

Test Details & Test Results :

Sl. No.	Test Parameter / Condition	Test specification Requirements	Test Results/ Observations Remarks
I.	<p><u>Initial Measurements:</u></p> <p>a. <u>Di- electric Breakdown Test:</u> Test Voltage : 1 kV/ 50 Hz Test Points; Between body & input terminals shorted. Duration: 1 minute</p>	There shall not be any breakdown or flashover.	No breakdown observed on any of four samples tested. and complies with spec.
II.	<p><u>Climatic Tests:</u></p> <p>a. Temperature Cyclic Test Temperature : -40 °C to + 85 °C Dwell time : 2 Hrs No. of cycles: 10 (As per IEC 68-2-14)</p> <p>b. Damp Heat test: Temperature: 55 °C RH : 93- 96 % No. of Cycles: 02 (As per IEC 68-2-30)</p> <p>c. Burn in test: Temperature : 65 °C Duration : 24 Hrs Load: 24 VDC/ 20 A</p>	<p>Conditioning and units shall be subjected to post measurements as in Initial.</p> <p>Conditioning and units shall be subjected to post measurements as in Initial.</p> <p>Conditioning and units shall be subjected to post measurements as in Initial.</p>	<p>No breakdown observed on any of four samples tested. and complies with spec.</p> <p>No breakdown observed on any of four samples tested. and complies with spec.</p> <p>No breakdown observed on any of four samples tested. and complies with spec.</p>

Tested By : *[Signature]*
Date : *05/07/07*



Approved By : *[Signature]*
T. MAHENDRAN
Addl. Director

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Test Report No. : T/ 58218

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Item : Diode OR ing Unit
Type/Model No. : P-OR-24-20

Sl.No. : --
Specification : Customer requirement

Test Details & Test Results :

Sl. No.	Test Parameter / Condition	Test specification Requirements	Test Results/ Observations Remarks
III.	d. <u>Vibration Test:</u> Frequency : 10 Hz – 150 Hz Amplitude: 0.5g Duration : 2 Hrs / axis Total: 6 hrs. for all 3 axis (X, Y, Z) (As per IEC 68-2-6)	Conditioning and units shall be subjected to post measurements as in Initial.	No breakdown observed on any of four samples tested. and complies.
	<u>Post Measurements:</u> a. Functional Test : at 24 V DC	Unit shall function: All the three LEDs shall glow and relay contacts shall be open.	Unit functions normally and complies with requirements.
	b. Voltage Drop Test: @ 24 V DC/ 20 A Load	Voltage drop between I/P & O/P shall be less than 0.65 V DC	0.60 V, 0.62V, 0.57V & 0.62V Complies with spec.

Tested By.....
Date.....

Approved By.....
T. Mahendran
Addl. Director

Issued By.....
Date.....



K. Swaroopa
Joint Director