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## EFT Test Report

PART NO.: NUC972DF62Y

Version: B

PKG type: LQFP216

Lot No.: E448M003

FUNCTION: ARM926EJ-S Based 32-bit Micro Processor

PROCESS: SMIC 0.11um

Result:  $\pm 4.4\text{KV}$  PASS

Report Date: Nov./2014

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## ---SUMMARY---

The EFT test results for NUC972DF62Y are:

- L1+: 4400V
- L1-: -4400V
- L2+: 4400V
- L2-: -4400V
- L1,L2+: 4400V: 4400V
- L1,L2+: -4400V: -4400V

DUT setting:

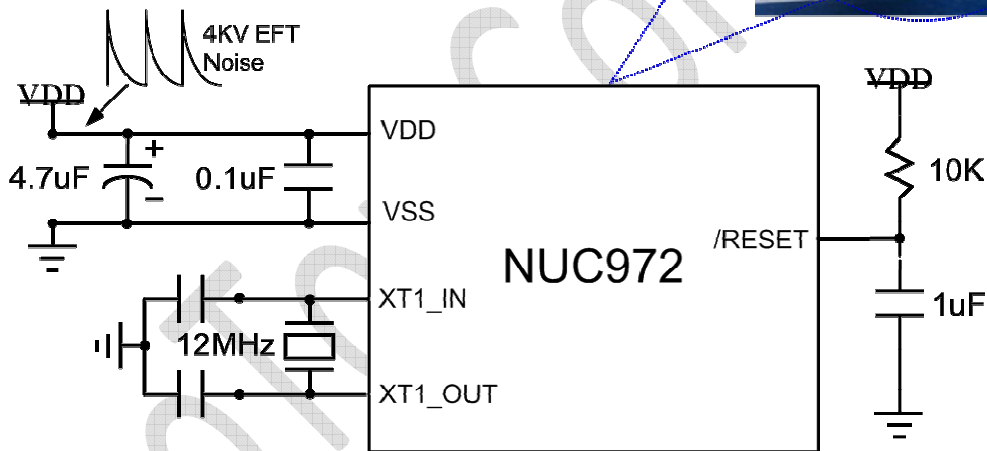
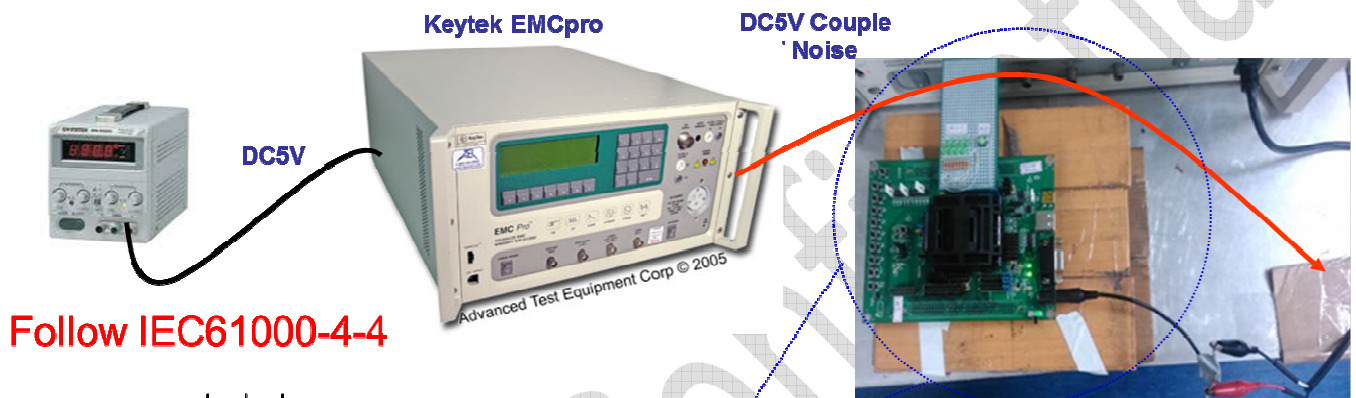
- FOSC: XTAL 12MHZ with PLL, CPU@300MHZ; HCLK@150MHZ  
APBCLK@37.5MHZ
- LVR: Enable.
- Test program: GPIO controls LED for flashing display

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### Connection:

Set power supplier to 5V through the EFT of Machine then connected it to NUC972 DUT board's power Jack

## Nuvoton MCU EFT Test Environment



EFT  $\pm 4.4\text{kV}$  test pass at L1 and L2 path

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# NUC972 EFT Test Pass Level

## 5 Test levels

The preferential range of test levels for the electrical fast transient test, applicable to power supply, protective earth (PE), signal and control ports of the equipment is given in Table 1.

These open-circuit output voltages will be displayed on the EFT/B generator. For selection of levels, see Annex A.

Table 1 — Test levels

Open-circuit output test voltage ( $\pm 10\%$ ) and repetition rate of the impulses ( $\pm 20\%$ )				
Level	On power supply port, PE		On I/O (Input/Output) signal, data and control ports	
	Voltage peak kV	Repetition rate kHz	Voltage peak kV	Repetition rate kHz
1	0,5	5	0,25	5
2	1	5	0,5	5
3	2	5	1	5
4	4	2,5	2	5
x <sup>a</sup>	Special	Special	Special	Special

<sup>a</sup> "x" is an open level. The level has to be specified in the dedicated equipment specification.

Test Result			
Type	Pass	Type	Pass
L1 +	4400V	L2 +	4400V
L1 -	4400V	L2 -	4400V

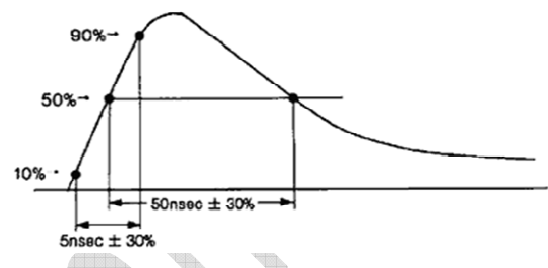
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Reference information:

# 電氣特性 – EFT

## STANDARD EFT WAVEFORM

### Each Pulse in the Burst



- EFT — Electrical Fast Transients
- Follow IEC61000-4-4

