

NICOMATIC Test report summary

CMM Family

INSULATION RESISTANCE Test



CREATIVE
INTERCONNECT
SOLUTIONS

I. Introduction

A. Purpose

The CMM connectors' family are manufactured to meet or exceed the requirements of **MIL-DTL-55302G standard**.

B. Scope

Measure the insulation resistance of CMM connectors equipped with LF and HP contacts.

The following data has been taken from NICOMATIC Qualification test report **QTR0808**.

C. Conclusion

The CMM connectors' family are **qualified** regarding **INSULATION RESISTANCE** according to **MIL-DTL-55302G**.

LF & HP Contacts (all series): **Insulation resistance > 400 GΩ**

II. Test Method and Requirements

A. List of Test Samples

a. CMM 200 Series

- 201Y50L – LF male contacts Straight PCB _ 13507
- 202Y50 – LF female contacts Straight PCB _ C14764

b. CMM 220 Series

- 221V50FXX – LF male contacts 90° PCB _ 13507
- 222S50MXX – LF female crimp contacts _ C12468
- 222YL26MXX – LF male contacts Straight PCB _ C14810
- 221S26FXX – LF male crimp contacts _ 12969
- 221D00FXX-0008-3400CMM – HP30 male contacts 90° PCB _ 30-3400-CMM
- 222E00MXX-0008-4320 – HP30 female straight contacts on cable _ 30-4320
- 222Y08SXX-0004-4300CMM – HP30 + LF female contacts Straight PCB _ 30-4300-CMM + C14764
- 221S08FXX-0004-3308 – HP30 + LF male contacts Straight on cable _ 30-3308 + 12969
- 221S06FXX-0003-3320 – HP30 + LF male contacts Straight on cable _ 30-3320 + 12969
- 222S06MXX-0003-4308 – HP30 + LF female contacts Straight on cable _ 30-4308 + C12468

c. CMM 320 Series

- 321C057FXX – LF male crimp contacts _ 12960
- 322C057MXX – LF female crimp contact _ C13064-P
- 321V096FXX – LF male contacts 90° PCB _ 13507
- 322Y096MXX – LF female contacts Straight PCB _ C14812
- 341D000FXX-0018-340014 – HP22 male contacts 90° PCB _ 22-3400-XX
- 342E000MXX-0018-4310 – HP22 female straight contacts on cable _ 22-4310
- 342D000MXX-0048-430014 – HP22 female contacts Straight PCB _ 22-4300-14
- 341E000FXX-0048-3310 – HP22 male straight contacts on cable _ 22-3310

B. Requirements

According to **MIL-DTL-55302G** standard and **EIA-364-21C**:

The initial insulation resistance shall be not less than 5,000 MΩ (5 GΩ).

C. Test Method and Results

Insulation resistance is measured separately between the closest adjacent contacts and between pins and hardware.

The same contact locations for a given connector are used each time the insulation resistance test is performed.

Test voltage applied is 500 V DC ± 10%.

CMM equipped with	Insulation Resistance
LF contacts	> 400 GΩ
HP 22 contacts	> 400 GΩ
HP 30 contacts	> 400 GΩ