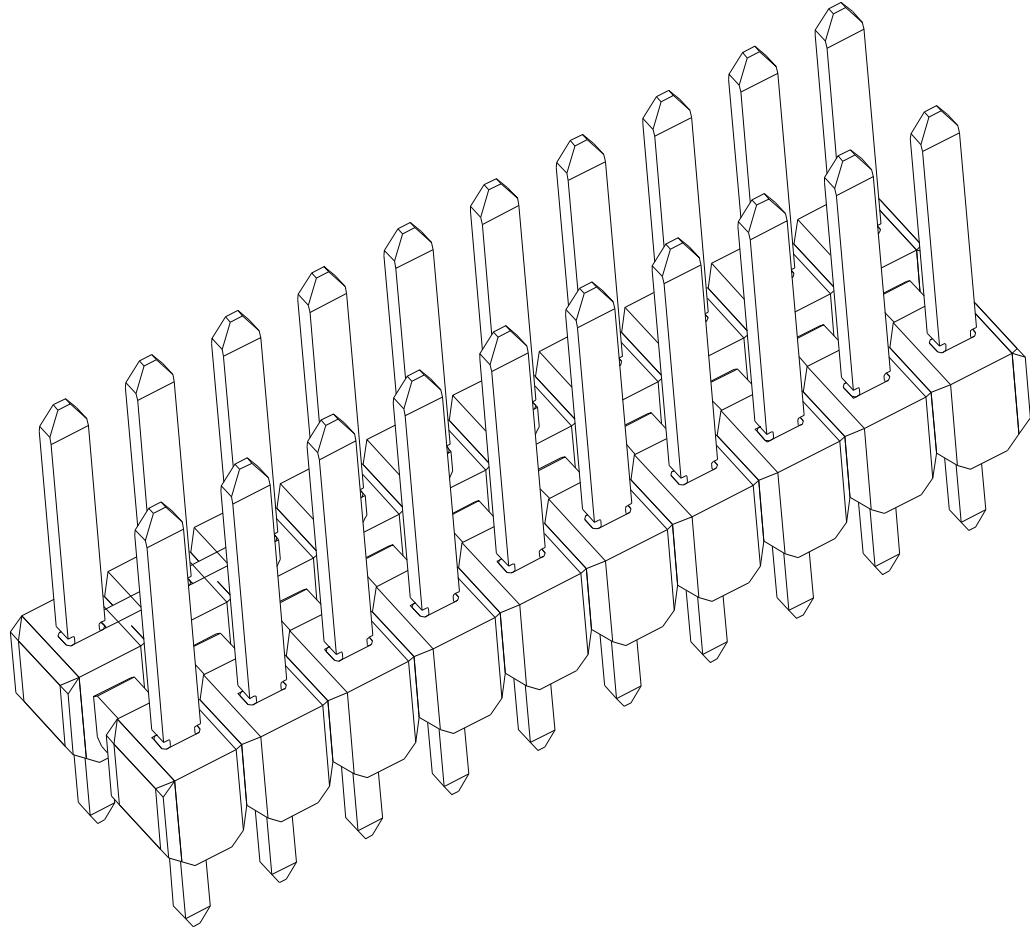




# TEST SUMMARY

## MX-150 VERTICAL HEADER



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DOCUMENT NUMBER: <b>TS-75757-001</b>	CREATED / REVISED BY: <b>GES</b>	CHECKED BY: <b>K.PRASAD</b>	APPROVED BY: <b>K.PRASAD</b>



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# TEST SUMMARY

## 1.0 SCOPE

This test summary covers the 3.50mm (0.138 in.) MX-150 Unshrouded header product line and is intended to mate with connector series 33471 and 33472.

## 2.0 PRODUCT DESCRIPTION

### 2.1 PRODUCT NAME AND SERIES NUMBER(S)

Product Name: MX-150 Connector Family  
Connector Series: 75757

### 2.2 DIMENSION, MATERIALS, PLATING AND MARKINGS

See the appropriate sales drawing for information on dimensions, materials, plating, marking, and footprint patterns.

### 2.3 SAFETY AGENCY APPROVALS

UL file: TBD  
CSA file: TBD  
TUV file: TBD

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## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

### 3.1 MOLEX DOCUMENTS

PK-75757-007  
AS-75757-106  
SD-75757-010

### 3.2 INDUSTRY DOCUMENTS

EIA 364 Series Electrical Connector Test Procedures Including Environmental Classifications with Test Procedures  
EIA 364-1000 Environmental Test Methodology for Assessing the Performance of Connectors and Sockets Used in Business Office Applications  
USCAR 1.5 Terminal Blade Specification

## 4.0 QUALIFICATION

Laboratory condition and sample selection are in accordance with EIA 364

## 5.0 RATINGS

### 5.1 VOLTAGE

≤ 500 VDC

### 5.2 CURRENT

7 Amps

### 5.3 TEMPERATURE

Operating: -40°C to + 125°C

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## 6.0 PERFORMANCE

### 6.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT	ACTUAL
1	<b>Insulation Resistance</b>	Apply a voltage of <b>500 VDC</b> between adjacent terminals and between terminals to ground.	<b>20 Megaohms MINIMUM</b>	PASS
2	<b>Temperature Rise</b> (via Current Cycling)	Mate Header with MX150 Receptace: Measure the temperature rise at the rated current after: 1. 96 hours (steady state) 2. 240 hours(45 minuets ON and 15 minuets OFF per hour) 3. 96 hours (steady state)	Temperature rise over Ambient: <b>+55 °C MAXIMUM</b>	<b>7 A MINIMUM</b> with <b>&lt;30 °C</b> temperature rise

### 6.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT	ACTUAL
1	<b>Terminal Insertion and Extraction Forces</b>	Insert and withdraw terminal (male to female) at a rate of <b>50 ± 6 mm (2 ± 1/4 inch)</b> per minute.	<b>6.5 N MAXIMUM</b>	Insertion: <b>3.05 N – 6.39 N</b> Withdrawal <b>2.17 N – 6.23 N</b>
2	<b>Connector Mate &amp; Un-mate Forces</b>	Mate and un-mate connector (male to female) at a rate of <b>50 ± 6 mm (2 ± 1/4 inch)</b> per min.	<b>130 N MAXIMUM</b> (20 circuit)	Mating: <b>70.14 N – 79.39 N</b> Un-Mating: <b>53.20 N – 68.99 N</b>
3	<b>Terminal Retention Force</b> (in header housing)	Axial push out force on the terminal from the housing at a rate of <b>50 ± 6 mm (2 ± 1/4 inch)</b> per min.	<b>0.7 kgf MINIMUM</b>	PASS <b>(2.31 kgf MINIMUM)</b>

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## 6.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT	ACTUAL
1	Thermal Aging	Mate Header with MX150 Receptacle connector; expose to 96 hours at 125 ± 2°C.	10 milliohms MAXIMUM (change from initial) & Visual: No Damage	<10 milliohms
2	Cold Resistance	Mate Header with MX 150 Receptacle connector; expose to 96 hours at -40 ± 3°C	10 milliohms MAXIMUM (change from initial) & Visual: No Damage	<10 milliohms
3	Solderability	Per SMES-152	Solder Coverage: 95% Minimum	PASS
4	Solder Resistance	Dip Header terminal tails in solder; Duration: 5 ± 0.5 seconds Temperature: 245 ± 5°C	Visual: No damage to insulator material	PASS

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