

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		-35°C TO 85°C (NOTE 1)		STORAGE TEMPERATURE RANGE	-10°C TO 60°C	
RATING	OPERATING TEMPERATURE RANGE			APPLICABLE CONNECTOR	MDF7-#P-2.54DSA (**)	
	VOLTAGE	250V AC				
CURRENT			3A			
<b>SPECIFICATIONS</b>						
ITEM	TEST METHOD		REQUIREMENTS		QT	AT
<b>CONSTRUCTION</b>						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING	CONFIRMED VISUALLY.					
<b>ELECTRIC CHARACTERISTICS</b>						
CONTACT RESISTANCE	100m A (DC OR 1000 HZ).		30mΩ MAX.		X	-
INSULATION RESISTANCE	500V DC.		1000M Ω MIN.		X	-
VOLTAGE PROOF	650V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.			
<b>MECHANICAL CHARACTERISTICS</b>						
CONTACT INSERTION AND EXTRACTION FORCES	□0.636±0.002 mm BY STEEL GAUGE.		INSERTION FORCE: 4.4 N MAX. EXTRACTION FORCE: 0.4 N MIN.		X	-
MECHANICAL OPERATION	50TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE; CRACK OR LOOSENESS OF PARTS.		X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10μs PARTS. ② NO DAMAGE; CRACK OR LOOSENESS OF PARTS.		X	-
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10μs PARTS. ② NO DAMAGE; CRACK OR LOOSENESS OF PARTS.		X	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→-5 TO 35→85→5 TO 35°C TIME 30→10 TO 15→30→10 TO 15min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE; CRACK OR LOOSENESS OF PARTS.		X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE; CRACK OR LOOSENESS OF PARTS.		X	-
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEITA-39)		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X	-
RESISTANCE TO SOLDERING HEAT	【FLOW CONDITION BY AUTOMATIC SOLDERING UNIT】 SOLDER TEMPERATURE 260±5°C, FOR IMMERSION DURATION 10s.(ONE TIME) 【RECOMMENDED MANUAL SOLDERING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS. DO NOT APPLY ANY FORCE TO THE CONTACTS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 245±5°C FOR IMMERSION DURATION 5s.		SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED.		X	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
6	DIS-H-006198	YN.SAKAMOTO	TS.MIYAZAKI	11.10.12		
REMARKS						
NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.						
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-162738-11		
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	MDF7-*S-2.54DSA (56)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		
				<b>△</b>	1/1	