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

APPLICABLE STANDARD		USB2.0 SPECIFICATION		
Rating	Operating Temperature Range	-30°C to +75°C	Storage Temperature Range	-40°C to +85°C
	Voltage	△1 30 V AC	Current	1 A

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
General Examination	Examined visually and with a measuring instrument.	Accoding to drawing.	X	X
Marking	Confirmed visually.		X	X
ELECTRICAL CHARACTERISTICS				
Contact Resistance	100 mA (DC or 1000 Hz).	50 mΩ max.	X	X
Contact Resistance Millivolt Level Method	20 mV max, 100 mA(DC or 1000 Hz).		X	—
Insulation Resistance	100 V DC	100 MΩ min.	X	X
Voltage Proof	100 V AC for 1min.	No flashover or breakdown.	X	X
Capacitance	Measured adjacent two contacts, At 1000±10Hz AC voltage.	2 pF max.	X	—
MECHANICAL CHARACTERISTICS				
Insertion And Withdrawal Forces	Measured by applicable connector.	1) Insertion force 35 N max. 2) Extracion force 7 N min.	X	—
Mechanical Operation	5000 times insertions and extractions.	1) Contact resistance: 70 mΩ max. 2) Extraction force 3 N min. 3) No damage, cracks 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 1μs. 2) No damage, cracks or looseness of parts.	X	—
Random Vibration	Frequency 50 to 2000 Hz, At 15 min, for 3 directions.		X	—
Shock	490 m/s^2 duration of pulse 11 ms At 3times in 3 both axial directions.		X	—
ENVIRONMENTAL CHARACTERISTICS				
Thermal Shock	Temperature –55→ 20 to 35→ 85→ 20 to 35 °C Time 30 → 2 to 3 → 30 → 2 to 3 min Under 10 cycles.	1) Contact resistance : 70 mΩ max. 2) No damage, cracks or looseness of parts.	X	—
Humidity Life	Temperature -10 to 65 °C, Humidity 90 to 98 %, Under 7 cycles (168 h)	1) Insulation resistance : 10 MΩ min (at dry). 2) No damage, cracks or looseness of parts.	X	—
Corrosion Salt Mist	Exposed in 5% salt water spray for 48 h. (JIS C 5402)	1) Contact resistance : 70 mΩ max. 2) No heavy corrsion.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△1	1	DIS-E-00017496	KH. KUZUMAKI	KG. OKITA	20241113

REMARK

Unless otherwise specified, refer to USB2.0 EIA364.

APPROVED	AO. SUZUKI	20050105
CHECKED	MR. NAKAMURA	20050105
DESIGNED	HK. TANAKA	20050105
DRAWN	HK. TANAKA	20050105

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-123212-00

HRS	SPECIFICATION SHEET	PART NO.	UX40-MB-5P	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0240-0004-7-00	△1 1/1

FORM HD0011-2-1