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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					
Rating	Operating temperature range ④	-40 °C to +105°C (Note1)	Storage temperature range		-10 °C to +60°C (Note3)
	Operating humidity range	20% to 80% (Note2)	Storage humidity range		40% to 70% (Note3)
	Current	3A	Voltage	Specification	AC/DC 230V
	Applicable connector	DF59-＊P-2C		UL/C-UL	AC/DC 29.9V
	Applicable cable	UL1061 AWG22		TÜV	TBD

Specifications

Item	Test method	Requirements	QT	AT
Construction				
General examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		X	X
Electric characteristics				
Contact resistance ④	DC6V MAX, 100mA. (DC or 1000Hz).	30mΩ MAX.	X	−
Mechanical characteristics				
Mechanical operation	30 times insertion and extraction.	①30mΩ MAX. ②No damage, crack or looseness of parts.	X	−
Vibration	Frequency 10 to 55Hz, single amplitude 0.75mm, at 10cycles for 3direction.	①No electrical discontinuity of 1μs. ②No damage, crack or looseness of parts.	X	−
Shock	490 m/s^2 duration of pulse 11 ms at 3 times for 3 directions.		X	−
Environmental characteristics				
Damp heat (Steady state)	Exposed at 40 ± 2℃ , 90 to 95 %, 96 h. (After leaving the room temperature for 1−2h.)	①30mΩ MAX. ②No damage, crack or looseness of parts.	X	−
Rapid change of temperature	Temperature -55℃→ +85℃ Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2−3 min) (After leaving the room temperature for 1−2h.)		X	−

Note 1: Include the temperature rising by current.
Note 2: No condensing
Note 3: Apply to the condition of long term storage for unused products before mounted on PCB.
After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.

	Count	Description of revisions	Designed	Checked	Date
④	2	DIS-H-00002838	TS.KUMAZAWA	TS.FUKUSHIMA	17.05.30

Remarks

Unless otherwise specified, refer to IEC60512.

Approved	KI.AKIYAMA	10.09.29
Checked	OM.MIYAMOTO	10.09.29
Designed	KT.ISHII	10.09.29
Drawn	KT.ISHII	10.09.29

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

		Drawing no.	ELC-331131-00-01	
HRS	Specification sheet	Part no.	DF59-22PCFA	
	Hirose electric co., ltd.	Code no.	CL667-0016-8-00 ④	1/1

FORM HD0011-2-1