	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△1	1	RE-6-2688	S.J.H	L.S.M	2022.05.11	△					
△						△					

APPLICABLE STANDARD

RATING	Operating Temperature Range	-55℃ to 105℃ (Note1)	Storage Temperature Range	-10℃ to 60℃ (Note3)
	Voltage	20% to 80% (Note2)	Storage Humidity Range	40% to 70% (Note3)
	Applicable Connector	KW30-*P-*C(###)	Applicable Cable	AWG#28 to 30
	Current △1	AWG 30 : 1.0A AWG 28 : 3.0A	Insulation Diameter	φ0.8 ~ φ0.88 mm

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
General Examination	Visually and by measuring instrument.	According to drawing.	o	o
Marking	Confirmed visually.		o	o
ELECTRICAL CHARACTERISTICS				
Contact Resistance Millivolt Level Method	20mV MAX, 10mA (DC or 1000Hz).	30 mΩ MAX.	o	–
MECHANICAL CHARACTERISTICS				
Mechanical Operation	30 times insertion and extraction.	①Contact resistance : 50mΩ MAX ②No damage, crack or looseness of parts.	o	–
Crimp Tensile Strength	Pull out the cable after Crimp contact fixation.	AWG#30 : 8N MIN AWG#28 : 16N MIN	o	–
Vibration	Frequency 10 to 55 Hz, single amplitude 1.52 mm, at 2hours for 3 direction.	①No electrical discontinuity of 1 μs. ②Contact resistance : 50 mΩ MAX.	o	–
Shock	Acceleration 490 m/s^2 duration of pulse 11 ms at 3times for 3 directions.	③No damage, crack or looseness of parts.	o	–
ENVIRONMENTAL CHARACTERISTICS				
Damp Heat (Steady State)	Exposed at 40 ± 2 ℃ , humidity 90 to 95 %, 240 h.	①Contact resistance : 50 mΩ MAX. ②Insulation resistance : 100MΩ MIN. ③No damage, crack or looseness of parts.	o	–
Rapid Change of Temperature	Temperature -55 ℃ → 105 ℃ Time 30min → 30min 25 Cycles. (The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)	①Contact resistance : 50 mΩ MAX. ②Insulation resistance : 100MΩ MIN. ③After Voltage proof test No flashover or breakdown. ④No damage, crack or looseness of parts.	o	–

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 PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.

Remark	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	S.W.CHOI	S.W.CHOI	S.M.LIM	S.M.LIM	
	20.06.29	20.06.29	20.06.30	20.06.30	
Unless otherwise specified, refer to IEC 60512.					

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. KW30-2830PCFA (800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-632850	CL 6669-0002-6-800	1/2

F-1-021(Rev.0)

Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

Dry Heat	Exposed at 105±2 ℃, 250h	①Contact resistance : 50 mΩ MAX. ②Insulation resistance : 100MΩ MIN.	o	–
Cold	Exposed at −55±3 ℃, 250h	③After Voltage proof test No flashover or breakdown. ④No damage, crack or looseness of parts.	o	–
Corrosion, Salt Mist	Exposed in 35±2 % salt water spray for 48h.	Contact resistance : 50 mΩ MAX.	o	–
Hydrogen Sulfide	Exposed in 40±2℃, humidity 80±5% 3±1 ppm for 96h.	Contact resistance : 50 mΩ MAX.	o	–

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. KW30-2830PCFA (800)

CODE NO.(OLD) CL	DRAWING NO. ELC4-632850	CODE NO. CL 6669-0002-6-800	2 2

F-1-021(Rev.0)

Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.