

	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		φ 0.8 ~ φ 0.88 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			20mV MAX, 10mA (DC or 1000Hz).			30 mΩ MAX.			O	-	
Millivolt Level Method											

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 μ s. ②Contact resistance : 50 mΩ MAX.			O	-	
Shock			Acceleration 490 m/s <sup>2</sup> 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 °C , 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 °C → 105 °C 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) CL			DRAWING NO. ELC4-632850			CODE NO. CL 6669-0002-6-800			1 2		

Dry Heat	Exposed at 105±2 °C, 250h	①Contact resistance : 50 mΩ MAX. ②Insulation resistance : 100MΩ MIN.	0	—
Cold	Exposed at -55±3 °C, 250h	③After Voltage proof test No flashover or breakdown. ④No damage, crack or looseness of parts.	0	—
Corrosion, Salt Mist	Exposed in 35±2 % salt water spray for 48h.	Contact resistance : 50 mΩ MAX.	0	—
Hydrogen Sulfide	Exposed in 40±2 °C, humidity 80±5% 3±1 ppm for 96h.	Contact resistance : 50 mΩ MAX.	0	—

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