

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85°C (NOTE1)			STORAGE TEMPERATURE RANGE	-10 °C TO +60°C			
	VOLTAGE	100 V AC			APPLICABLE CONNECTOR	DF19 (G) - * S-1 # (NOTE2)			
	CURRENT	AWG28: 1A AWG30: 0.9A AWG32: 0.8A							
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING		CONFIRMED VISUALLY.						×	×
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			30 mΩ MAX.			×	-
INSULATION RESISTANCE		100 V DC.			500 MΩ MIN.			×	-
VOLTAGE PROOF		300 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	-
MECHANICAL CHARACTERISTICS									
MECHANICAL OPERATION		30 TIMES INSERTION AND EXTRACTION.			① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			×	-
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs.			×	-
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			×	-
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT(STEADY STATE)		EXPOSED AT 40 ± 2°C , 90 TO 95 % , 96 h.			① CONTACT RESISTANCE: 30 mΩ MAX.			×	-
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35°C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.			② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			×	-
CORROSION, SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48h.			NO HEAVY CORROSION			×	-
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)						×	-
RESISTANCE TO SOLDERING HEAT		(1) REFLOW SOLDERING 《REFLOW AREA》 MAX 250°C WITHIN 10 sec. MIN 230°C WITHIN 60 sec 《PREHEATING AREA》 170°C TO 190 °C 60 sec. TO 120 sec. PUT THROUGH IN REFLOW FUMACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. (2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE 350 ± 5°C, FOR 5 ± 1 sec. NO STRENGTH ON CONTACT.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			×	-
SOLDERABILITY		SOLDERING TEMPERATURE : 245°C DURATION OF IMMERSION :			A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.			×	-
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE 2: * =TERMINATION STYLE MARKING (C : CRIMP SOCKET, F : FPC SOCKET, SD : SOCKET FOR FINE COAXIAL CABLES)				F.Matsuki '04.04.13	<i>H. Umehara</i> '04.04.13	<i>J. Ona</i> 04.04.15	<i>J. Ona</i> 04.04.15		
Unless otherwise specified, refer to JIS C 5402.									
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF19-*P-1V (56)		
CODE NO.(OLD) CL		DRAWING NO. ELC4-302813-01			PART NO. CL 6 8 5			1	1

TO

