



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TO

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

APPLICABLE STANDARD

OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
RATING VOLTAGE	100 V AC	APPLICABLE CONNECTOR	DF20A-*DS-1C
CURRENT	AWG28:1 A	APPLICABLE CABLE	28 - 30AWG
	AWG30:0.9A		JACKET DIAMETER 0.6MAX

ITEM

TEST METHOD

REQUIREMENTS

Q T A T

CONSTRUCTION

GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT.

ACCORDING TO DRAWING.

MARKING

CONFIRMED VISUALLY.

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE 20 mV MAX, 1mA (DC OR 1000 HZ).
MILLIVOLT LEVEL METHOD

30 mΩ MAX.

MECHANICAL CHARACTERISTICS

CONTACT INSERTION AND EXTRACTION 0.2±0.005 BY STEEL GAUGE.

INSERTION FORCE : 2 N MAX.
EXTRACTION FORCE :0.2 N MIN.

MECHANICAL OPERATION 50 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.
② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.

SHOCK 490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.

① NO ELECTRICAL DISCONTINUITY OF 1 μs.
② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.

CRIMP BARREL TENSILE STRENGTH

#AWG28 : 10 N MAX
#AWG30 : 8 N MAX

ENVIRONMENTAL CHARACTERISTICS

RAPID CHANGE OF TEMPERATURE 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.

① CONTACT RESISTANCE: 30 mΩ MAX.
② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.

DAMP HEAT(STEADY STATE) EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.

① CONTACT RESISTANCE: 30 mΩ MAX.
② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.

CORROSION, SALT MIST EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.

NO HEAVY CORROSION.
NO HEAVY CORROSION.

SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)

REMARKS NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
S. Ono 02.08.29	S. Ono 02.08.29	J. Higashimura 02.08.29	K. Katayama 02.08.30	

Note Q1:Qualification Test AT:Assurance Test O:Applicable Test

HRS HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

DF20F - 2830SCFA

CODE NO.(OLD) CL DRAWING NO. ELC4-164278 PART NO. CL 686-0042-6

