

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE	STORAGE TEMPERATURE RANGE
		- 3 5 °C TO 8 5 °C(NOTE1)	- 1 0 °C TO 6 0 °C
RATING	VOLTAGE	3 0 V A C	DF30*-80DP-0. 4V (**)
CURRENT		0. 3 A	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.		X	X

ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	1 0 0 mA (DC OR 1000 Hz).	1 0 0 mΩ MAX.		X	-
INSULATION RESISTANCE	1 0 0 V DC.	5 0 MΩ MIN.		X	-
VOLTAGE PROOF	1 0 0 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	-

MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	5 0 TIMES INSERTIONS AND EXTRACTIONS.			X	-
VIBRATION	FREQUENCY 1 0 TO 5 5 Hz. SINGLE AMPLITUDE 0. 7 5 mm, 1 0 CYCLES OF EACH 3 AXIAL DIRECTION FOR 5 min.			X	-
SHOCK	4 9 0 m/s ² DURATION OF PULSE 1 1 ms AT 3 TIMES FOR 3 DIRECTIONS.			X	-

ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 4 0 ± 2 °C, 9 0 TO 9 5 %, 9 6 h.			X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5 TO 35 → 85 → 5 TO 35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.			X	-
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. (TEST STANDARD:IEC60069)			X	-
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96h. (TEST STANDARD:IEC60069)			X	-

REMARKS				
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.				
Unless otherwise specified, refer to IEC60512.				
DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
T.Nishi 04.07.30	K. Takekoshi 04.07.30	M. Abe 04.07.30	T. Ota 04.07.30	

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

HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. DF30FC-80DS-0. 4V (81)	
CODE NO.(OLD)	DRAWING NO.	CODE NO.			
CL	ELC4-303468-03	CL684-1116-3-81			

TO



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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
4	RE-H-06664	YM	TTS	04.12.17					..
									..
									..

■ NOTES WHEN MATING DF30 SERIES CONNECTORS.

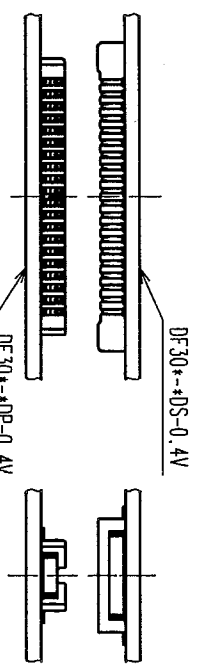


FIGURE - 1

PLEASE LOCATE EACH CONNECTOR IN PARALLEL WHEN YOU PUT THEM IN MATING POSITION.

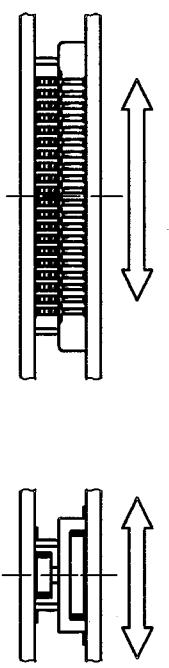


FIGURE - 2

THE INSULATOR WILL BE DAMAGED AND THE CONTACTS WILL BE DEFORMED IF THE CONNECTORS ARE LOCATED INCLINED AND MATED BY EXCESSIVE FORCE.

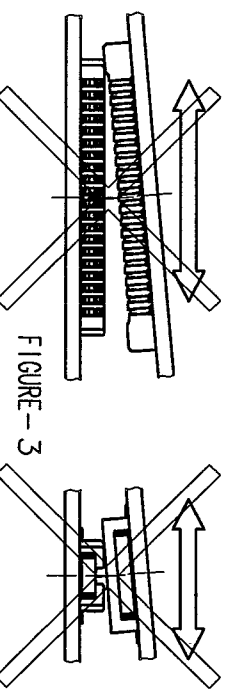


FIGURE - 3

WHEN YOU LOCATE TWO CONNECTORS IN A PROPER POSITION, THEY WILL GO DOWN SLIGHTLY AT A LOWER LEVEL AND YOU WILL FIND THAT THEY GET LOCATED CORRECTLY. PLEASE MATE EACH CONNECTOR IN PARALLEL AFTER YOU CONFIRMED THAT THEY GO DOWN LOWER TO SOME EXTENT.

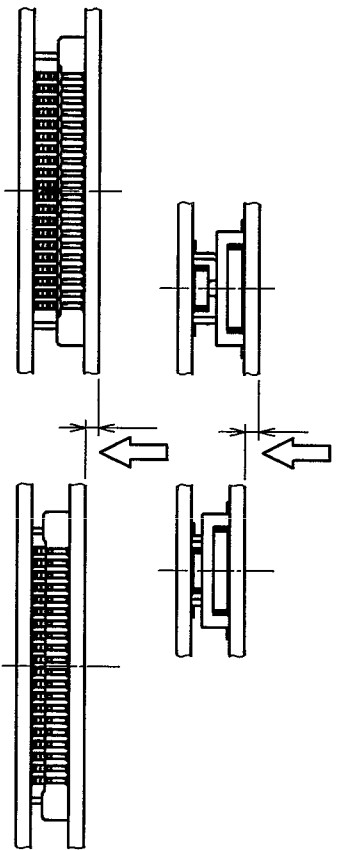


FIGURE - 4

THE MATED CONDITIONS CAN BE RELEASED BY A DROP IMPACT OR THE APPLIED FORCE CAUSED BY FCC-HANDLING. FIX THE CONNECTORS BY APPLYING PRESSURE IN THE MATING DIRECTION WITH THE DEVICE OR A BUFFER MATERIAL.

CODE NO. (OLD)

DRAWN

Y. MICHIDA

DESIGNED

A. TAKAHASHI

CHECKED

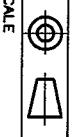
T. SAKATA

APPROVED

T. OMA

RELEASED

NOTES WHEN MATING



DRAWING NO. EDSC4-830174

PART NO. DF30 Series

SCALE FREE : 1

UNITS mm

CODE NO. CL684

1/3

TO

1

2

3

4



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

■ NOTES WHEN EXTRACTING

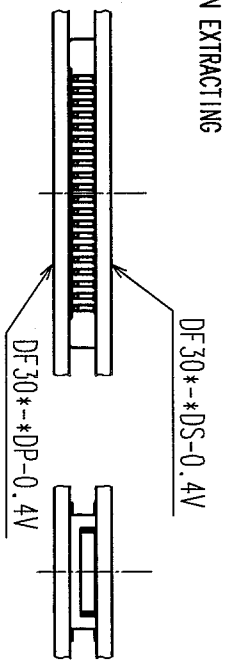


FIGURE-5

WHEN YOU EXTRACT CONNECTORS, PLEASE EXTRACT IN PARALLEL.

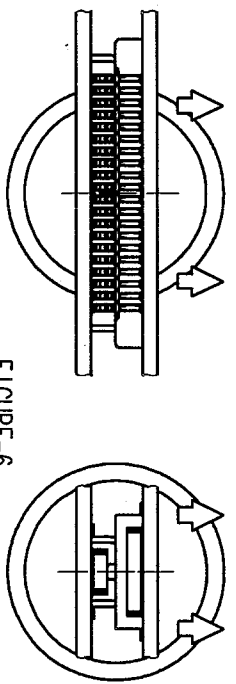


FIGURE-6

△ IF YOU'RE UNABLE TO EXTRACT IN PARALLEL DUE TO SET STRUCTURE OR SPACE, PLEASE EXTRACT AS FIGURE-7 (IN LONGER DIMENSION). PLEASE BE CAREFUL NOT TO DAMAGE CONTACTS AT SIDES, WHERE STRESS IS LIKELY TO GATHER WHEN CONNECTORS ARE MOUNTED ON SOFT FPC.

△ ESPECIALLY, PLEASE DO NOT EXTRACT FROM THE CORNER AS FIGURE-8. IT GIVES CRITICAL STRESS TO THE CONTACTS ON THE CROSS CORNER.

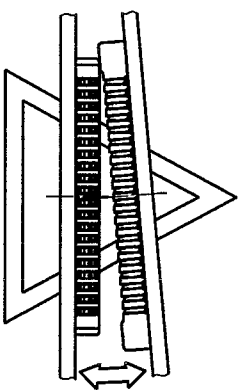


FIGURE-7

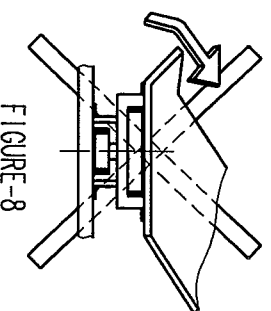


FIGURE-8

△ PLEASE DO NOT EXTRACT AS FIGURE-9. THE STRESS CONCENTRATES ON ONE ROW, AND MIGHT DAMAGE CONNECTORS TO MALFUNCTION.

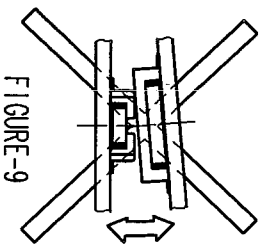


FIGURE-9

CODE NO. (OLD)

NOTES WHEN EXTRACTING

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Y. MICHIDA 04.12.16	A. TAKAHASHI 04.12.16	T. SAKATA 04.12.16	T. OMA 04.12.16	



SCALE
FREE : 1
UNITS
mm

DRAWING NO.
EDSC4-830174

PART NO.
DF30 Series

HRS

HIROSE ELECTRIC CO., LTD.

CODE NO.

CL684

1

2

3

4

FORM NO.228

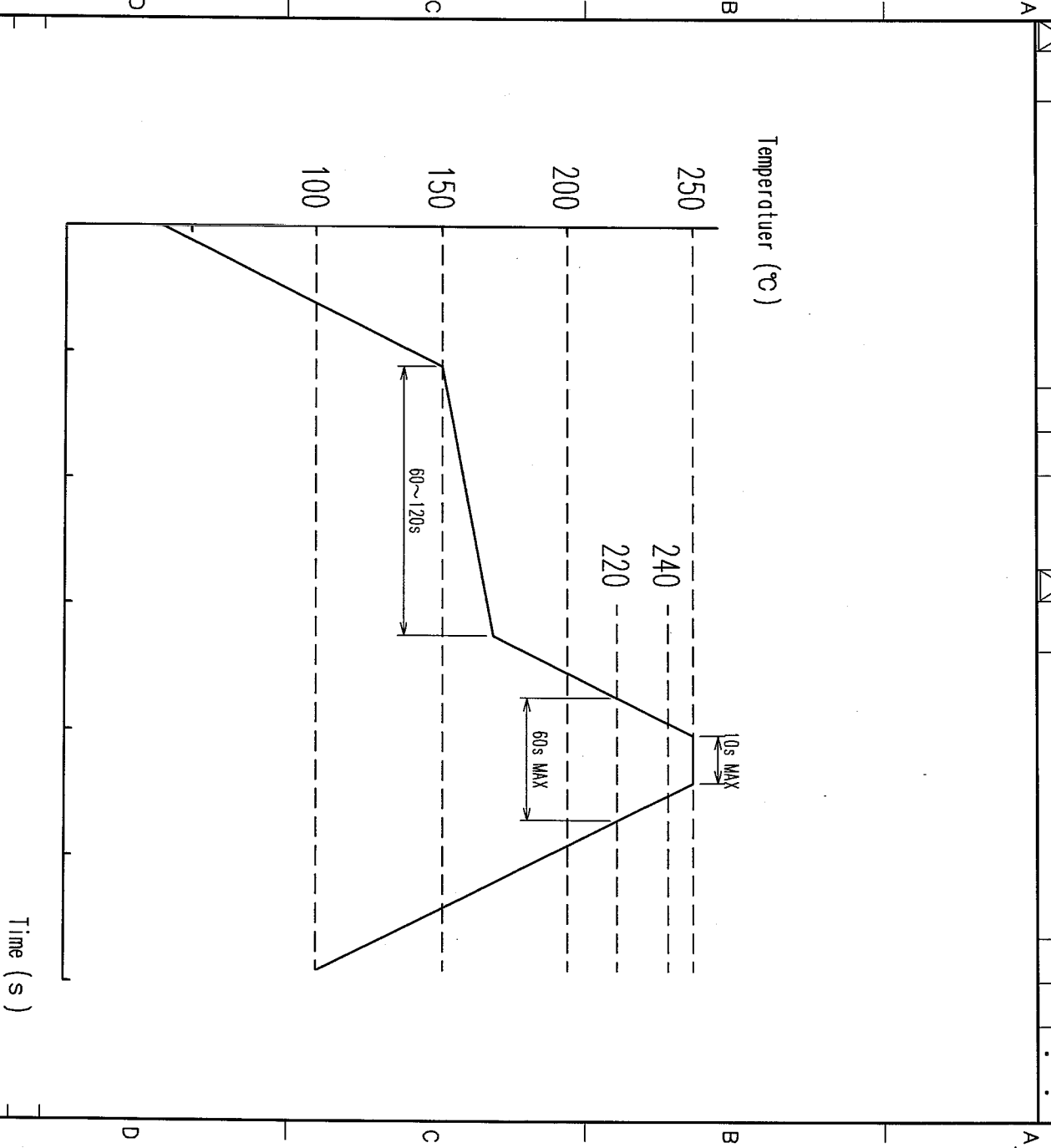
TO



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NOTE 1. REFLOW SYSTEM : IR REFLOW (AIR OR N₂ GAS)
 2. PERFORMING REFLOW : TWICE MAX

NO. MATERIAL	FINISH, REMARKS	NO. MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			
RECOMMENDED TEMPERATURE PROFILE		DRAWN	DESIGNED
		T. NISHI 03.08.19	W. Takahashi 03.08.19
		CHECKED	APPROVED
		<i>[Signature]</i> 03.08.20	T. Ono 03.08.20
		RELEASED	
SCALE	DRAWING NO.	PART NO.	CODE NO.
FREE	EDC4-830116	DF30-*DS/DP-0.4V	CL684
UNITS	HIROSE ELECTRIC CO., LTD.		
mm			

