

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△1	8	RE-5-2033	Y.K.G	C.D.H	18.10.04	△			
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#### APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	△ -40°C ~ +105°C (note1)	STORAGE TEMPERATURE RANGE	-10°C~+50°C(Packed Condition)
	VOLTAGE	50V [AC(rms) / DC]	OPERATING OR STORAGE HUMIDITY RANGE	Relative Humidity 90% MAX(NOT DEWED)
	CURRENT	△ 0.5A [AC(rms) / DC] (note 2)	APPLICABLE CABLE	FPC/FFC (t=0.3±0.03mm)

#### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	○	○
MARKING	CONFIRMED VISUALLY			

#### ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF AC 20mV MAX (1KHz), 1mA.	50mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)	○	○
INSULATION RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V.	500MΩ MIN.	○	○
VOLTAGE PROOF	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.	NO FLASHOVER OR BREAKDOWN	○	○

#### MECHANICAL CHARACTERISTICS

MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRATIONS.	① CONTACT RESISTANCE : 50mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	○	-
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, - m/s <sup>2</sup> FOR 10 CYCLES IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② CONTACT RESISTANCE : 50mΩ MAX.	○	-
SHOCK	981m/s <sup>2</sup> DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS	○	-
FPC/FFC RETENTION FORCE	△ MEASURE BY APPLICABLE FPC/FFC. (THICKNESS OF FPC/FFC SHALL BE t=0.30mm AT INITIAL CONDITION.)	HORIZONTAL DIRECTION : 0.3N X n MIN. (n : NUMBER OF CONTACTS). (note 3)	○	-

#### ENVIRONMENTAL CHARACTERISTICS

RAPID CHANGE OF TEMPERATURE	TEMPERATURE : -40 → 15 TO 35 → +105 → 15 TO 35 °C TIME : 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE : 50mΩ MAX. ② INSULATION RESISTANCE : 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS	○	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2°C, 90~95 %, 96h.		○	-
DAMP HEAT, CYCLE	TEMPERATURE : -10 TO +65°C HUMIDITY : 90 TO 95% 10 CYCLE, TOTAL 240h.		○	-
DRY HEAT	EXPOSED AT 105±2°C, 96h.	① CONTACT RESISTANCE : 50mΩ MAX.	○	-
COLD	EXPOSED AT -40±3°C, 96h.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS	○	-
CORROSION SALT MIST	EXPOSED AT 35±2°C, 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE : 50mΩ MAX.	○	-
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5%, 25±5 PPM FOR 96h.	② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR	○	-
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5%, 10 TO 15 PPM FOR 96h.		○	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : PEAK TMP. 250°C MAX. REFLOW TMP. 230°C MIN. FOR 60 sec. 2) SOLDERING IRONS : TMP. 350±5°C FOR 5±1 sec.	① NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS ② NO DAMAGE OF ELECTRICAL PERFORMANCE	○	-
SOLDERABILITY	SOLDER DIPPING TEMPERATURE 245±5°C, FOR IMMERSION DURATION, 3±0.3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACR BEING IMMERSED.	○	-

△1(note 1)

FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105°C

△1(note 2)

WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70% OF THE RATED CURRENT VALUE.

△1(note 3)

THERE'S A CASE WHICH FPC/FFC RETENTION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.	18.03.02	B.J KIM	D.H CHO	H.C SONG	ENG 18.10.04 DEPT

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

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO.
		TF38-**S-0.5SV(830)

CODE NO.(OLD)

DRAWING NO.

CL

ELC4-632306

CODE NO.

CL 6537-\*\*\*\*-\*830

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