

REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-55 °C ~ +85 °C			STORAGE TEMPERATURE RANGE		-10 °C ~ +50 °C (PACKED CONDITION)			
	VOLTAGE		30 V [AC(rms) / DC]			OPERATING OR STORAGE HUMIDITY RANGE		RELATIVE HUMIDITY 90 % MAX (NOT DEWED)			
	CURRENT		0.4 A [AC(rms) / DC] (NOTE 1)			APPLICABLE CABLE		FPC (T=0.2 ±0.03 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			MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 1 mA AC (OR 1,000 Hz)			100 mΩ MAX INCLUDING FPC/FFC BULK RESISTANCE (L=8 mm)			O	O	
INSULATION RESISTANCE			MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100 V			500 MΩ MIN			O	O	
VOLTAGE PROOF			MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150 V FOR 1 min			NO FLASHOVER OR BREAKDOWN			O	O	
MECHANICAL CHARACTERISTICS											
FPC RETENSION FORCE			MEASURE BY APPLICABLE FPC/FFC (T=0.2) AT INITIAL CONDITION			① HORIZONTAL DIRECTION : 0.25 N * n MIN ② VERTICAL DIRECTION : 0.25 N * n MIN (n : NUMBER OF CONTACTS)			O	-	
MECHANICAL OPERATION			20 TIMES INSERTIONS AND EXTRATIONS			① CONTACT RESISTANCE : 100 mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS			O	-	
VIBRATION			FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2 hrs, IN 3 DIRECTIONS			① NO ELECTRICAL DISCONTINUITY OF 1 μs ② CONTACT RESISTANCE : 100 mΩ MAX			O	-	
SHOCK			981 m/s <sup>2</sup> DIRECTION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS			O	-	
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT (STEADY STATE)			EXPOSED AT 40 °C, 90~95 %, 96 hrs			① CONTACT RESISTANCE : 100 mΩ MAX			O	-	
RAPID CHANGE OF TEMPERATURE			TEMP. : -55 → 15~35 → +85 → 15~35 °C TIME : 30 → 2~3 → 30 → 2~3 min 5 CYCLES WITH ABOVE CONDITIONS			② INSULATION RESISTANCE : 100 MΩ MIN ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS			O	-	
DAMP HEAT, CYCLE			TEMPERATURE : -10 → +65 °C HUMIDITY : 90~95 % 10 CYCLE (240 hrs)						O	-	
DRY HEAT			EXPOSED AT 85 °C, 96 hrs			① CONTACT RESISTANCE : 100 mΩ MAX			O	-	
COLD			EXPOSED AT -55 °C, 96 hrs			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS			O	-	
CORROSION SALT SPRAY			EXPOSED AT 35 °C, 5 % SALT WATER SPRAY FOR 48 hrs			① CONTACT RESISTANCE : 100 mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS			O	-	
HYDROGEN SULPHIDE			EXPOSED IN 3 PPM FOR 96 hrs (TEST STANDARD : JEIDA-38)			③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR			O	-	
RESISTANCE TO SOLDERING HEAT			REFLOW SOLDERING TEMP. : 230 °C MIN FOR 60 sec PEAK TEMP. : 250 °C MAX			① NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS ② NO DAMAGE OF ELECTRICAL PERFORMANCE			O	-	
SOLDERABILITY			SOLDERED AT SOLDER TEMPERATURE 245 ±3 °C FOR IMMERSION DURATION 3 ±0.3 sec			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.			O	-	
NOTE 1) 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.											
REMARKS		CONDITIONS FOR TESTING			DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
<div>DRAWING FOR REFERENCE</div> <div>This is subject to change without notice</div>					J.H.BOO	J.H.BOO	D.H.CHO	D.H.CHO	<div>DEPT</div> <div>21.02.16</div> <div>ENG</div>		
					21.02.16	21.02.16	21.02.16	21.02.16			
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. TF42-**S-0.35SH(895)				
CODE NO. (OLD)			DRAWING NO. ELC4-633304-95			CODE NO. CL ****_****_*_***			1/1		