APPLICA	BLE STANI	DARD	USB2.0 SPECIFICATION A	AND MIC	RO-USB (	CABL	E AND CONN	IECTORS SPECIFICATIO	N.	
OPERATING TEMPERATI RANGE		RE	-30 °C TO +85 °C		TEMF	STORAGE TEMPERATURE RANGE		-30 °C TO +60 °C		
RATING	VOLTAGE		30 V AC		_	RATIN DITY	G RANGE	-		
	CURRENT		1) 1 A / pin		APPL	ICABL	.E	-		
1) SIGNAL OI		NLY 2) 1.8 A / pin (PIN No.1,5)			CABLE					
	2) POWER AF	PPLY	0.5 A / pin (PIN No.2-4							
			SPEC	IFIC/	ATION	1S				
	EM		TEST METHOD				REC	UIREMENTS	QT	АТ
	UCTION	MELIALI	V AND BY MEASURING INSTR	DIMENT		۸۵۵	OPDING TO D	DAWING.	X	X
GENERAL EXAMINATION MARKING		VISUALLY AND BY MEASURING INSTRUMENT.  CONFIRMED VISUALLY.				ACC	ACCORDING TO DRAWING.			
	CAL CHAP								X	X
CONTACT R			DC OR 1000 Hz).			30 m	Ω ΜΑΧ.		X	X
INSULATION	RESISTANCE	500 V DC.				100 MΩ MIN.				Х
VOLTAGE PR	ROOF	100 V AC FOR 1 min.				NO F	LASHOVER C	R BREAKDOWN.	Х	Х
CAPACITANCE		MEASURE ADJACENT TWO CONTACTS AT 1000±10 Hz AC VOLTAGE.				2 pF	MAX.		Х	_
MECHAN	IICAL CHA					1				1
INSERTION A		A MAXIMUM RATE OF 12.5 mm/min.				INSERTION FORCE 35 N MAX. WITHDRAWAL FARCE 8 N MIN.			Х	_
	L OPERATION	MEASURED BY APPLICABLE CONNECTOR.  10000 TIMES INSERTIONS AND EXTRACTIONS.					1) CONTACT RESISTANCE:			+-
		MATING SPEED - MECHANICALLY OPERATED: 500 CYCLES / h MANUALLY OPERATED : 200 CYCLES / h				NO INCREASE OF MORE THAN 10 m Ω FROM INITIAL VALUE. 2) INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 8 N MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 1) NO ELECTRICAL DISCONTINUITY OF 1 μs.			X	_
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 AXIAL DIRECTIONS.			2) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	_	
RANDOM VIBRATION		FREQUENCY 50 TO 2000 Hz, AT 15 min, FOR 3 AXIAL DIRECTIONS.							X	-
SHOCK		490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.							Х	_
ENVIRO	MENTAL		ACTERISTICS						<u> </u>	<u>.i.</u>
THERMAL SHOCK		TEMP $-55 \rightarrow 15 \text{ TO } 35 \rightarrow 85 \rightarrow 15 \text{ TO } 35 ^{\circ}\text{C}$ TIME $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min.}$ UNDER 10 CYCLES. (MATING APPLICABLE CONNECTOR)			1) CONTACT RESISTANCE: 70 mΩ MAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			Х	_	
HUMIDITY LIFE		TEMPERATURE -10 TO 65 °C,HUMIDITY 90 TO 98 % UNDER 7 CYCLES. (168 h) (MATING APPLICABLE CONNECTOR)			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			Х	_	
DRY HEAT			EXPOSED AT 85±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	_
COLD		EXPOSE	EXPOSED AT -40±2 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF			Х	
CORROSION SALT MIST		EXPOSE	(MATING APPLICABLE CONNECTOR)  EXPOSED IN 5 % SALT WATER, 35 °C FOR 48 h.			PARTS.  NO HEAVY CORROSION.				<del>                                     </del>
		,	UNDER UNMATED CONDITION) ERING POINT IMMERSED IN SOLDER BATH OF			SOLDER SHALL COVER MINIMUM OF 95 %			X	<del>  -</del>
RESISTANCE	E TO		, 5 sec.(USING TYPE R FLUX) LE IS SHOWN IN FIG1, UNDE	R 2 CYC	LES.			BEING IMMERSED. CK AND LOOSENESS OF	X	-
SOLDERING	HEAT		·	0, 0		PAR			Х	_
COUN	T DE	SCRIPTION	ON OF REVISIONS		DESIGN	NED		CHECKED	DA	TE
<u>&amp;</u>							ADDDOV(55		ļ	• • •
REMARK  APPROVED NM. NISHIMATSU  HIROSE will not guarantee the performance on these specifications in CHECKED KN ICHIKAWA								15. 10. 27 15. 10. 27		
			d with the others which is not HIROS					KN. ICHIKAWA		
•			efer to USB2.0, EIA364 or IEC 60512.			DEGIGITED		TS. ITO AK. AKIYAMA		0. 27 0. 27
lote QT:Q	ualification Tes	t AT:Ass	surance Test X:Applicable T	est	DR	AWIN	IG NO.	ELC-126522-31-0		J. 21
HRS	SF	PECIFICATION SHEET			PART					
		OSE ELECTRIC CO., LTD.			CODE	NO. CL242-0		0043-1-31		1/2
TODM UD0011 2 1					IO. OLZTZ O		70 10 1 01			

## **SPECIFICATIONS**

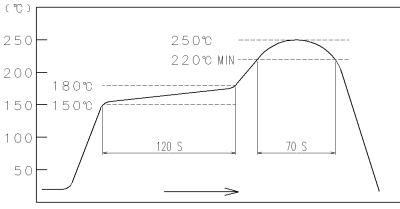


FIG – 1 <u>RESISTANCE TO SOLDERING HEAT</u> (TEMPERATURE AT TOP SURFACE OF CONNECTOR)

## ■ RECOMMENDED PROFILE REFERS TO FIG – 2. (TEMPERATURE AT SMT LEADS)

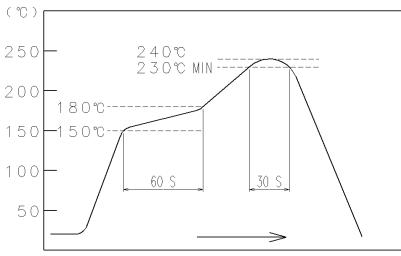


FIG – 2 RECOMMENDED REFLOW PROFILE TEMPERATURE

Note 0	QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-126522-31-00		
HS.		SPECIFICATION SHEET	PART NO.	ZX60-B-5S (31)			
л0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL242-00	43-1-31	$\triangle$	2/2	