APPLICA	BLE STAN	DARD	IEC 61076-3-124							
Dating	Operating Temp Range Rating		-40°C to +85°C(95%RH ma. (note1,2)		torage Ter ange	mperature	-30 (note	°C to +60°C(95%RH m 1)	nax)	
Raung	Volta	an an	50.1/40/001/18		Cui	rrent	1.5 A/pin (all pin)			
Volta		50 V AC / 60 V DC			TOTAL		3 A/pin (pin No.1,2,	6,7)		
			SPECI	FICAT	IONS	3				
IT	EM		TEST METHOD			R	EQU	REMENTS	QT	АТ
CONSTR	UCTION	•			•					
General Examination		Examined	visually and with a measuring ins	strument.	Acco	According to drawing.				Х
Marking		Confirmed	d visually.		Acco	ording to dra	wing.		Х	Х
ELECTR	IC CHARA	CTERI	STICS		<u> </u>					
Contact Resist	ance	Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m Ω max. (note3) Shield : 100 m Ω max. (note3)			Х	_
Insulation Resistance		Measured	at 500 V DC.			MΩ min.			Х	1-
Voltage Proof		500 V DC	applied for 1 min. Current leakag	je 2mA max.	No b	oreakdown.		<u></u> \$\	X	1-
Insertion Loss		Measured	in the range of 1 to 500 MHz.		0.02	2 √(f) dB ma	ax.			
					,			results in a value less than shall revert to 0.1 dB.)	Х	_
Return Loss		Measured	in the range of 1 to 500 MHz.		68 –	- 20log(f) dB	min.			
					`			results in a value greater thar shall revert to 30 dB.)	X	-
Near end Cros	stalk	Measured in the range of 1 to 500 MHz.						MHz to 250MHz)		
					46.0	04 – 30log(f/2	- 30log(f/250) dB min. (250MHz to 500MHz)			
					1	(Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)				
Far end crosst	alk	Measured	in the range of 1 to 500 MHz. 83.1 – 20log(f) dB min.				shall revert to 73 db.)	+	1	
r ar ona oroso	u				(Wh	enever the f	ormula	results in a value greater than shall revert to 75 dB.)	n X	-
Transverse Co	nversion Loss	Measured	in the range of 1 to 500 MHz.			- 20log(f) dB		,		
								results in a value greater than shall revert to 50 dB.)	X	-
Transverse Co	nversion	Measured	easured in the range of 1 to 500 MHz.		68 –	- 20log(f) dB	min.			
Transfer Loss					,	(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				-
MECHAN	ICAL CHAR	ACTER	ISTICS		<u> </u>	·		·	l .	
Insertion and \	Vithdrawal	A maximu	m rate of 50 mm/min.		Inse	rtion force	25 [N max.	Х	
Forces		Measured	by applicable connector.		With	ndrawal force	25	N max.		
Mechanical Op	peration	5000 time	s insertions and extractions.		1) R	esistance:				
		Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)				Contact: 80 mΩ max. (note3)			Х	-
						Shield: 100 mΩ max. (note3) 2) No damage, cracks or looseness of parts.				
Note		Rest: 58,	min.(unmated)			- damage, c		- reconnect of parter		
1. Non-conde	=	-	mperature includes the temperatu	ure rise by cur	rrent carry	ing				
	conductor resista haracteristics ar		considered. e to the contacts and shield excep	ot for contacts	No. 3 and	i 8.				
COUN			ON OF REVISIONS		SIGNE			CHECKED	DA	TE
<u>3</u> 9	520		E-00014809		YASUE			KI.KAGOTANI	2023	
REMARK						APPRO'	VED	RI.TAKAYASU	2018	
					Ī	CHECK		KI.NAGANUMA	2018	
					Ī	DESIGN	NED	YS.SAKODA	2018	
Unless oth	nerwise spe	cified, re	ified, refer to IEC 60512.			DRAWN		YS.SAKODA	2018	
Note QT:Q	ualification Te	st AT:As	surance Test X:Applicable Te	est	DRAV	VING NO.		ELC-129413-0	00-00)
HS		SPECIF	FICATION SHEET	P	ART NC).		IX80G-B-10P		
	HIR	OSE E	LECTRIC CO., LTD.	C	ODE NO	o. Cl	L025	1-0019-0-00	À	1/4

	SPECIFIC/	OITA	NS					
ITEM	TEST METHOD			REQUI	REMENTS		QT	АТ
Vibration ,sinusoidal	Frequency 10 to 500 Hz 0.35 mm, 50 m/s ² 2hrs in each of 3 mutually perpendicular axis.		-		uity of 1µs. (note4) looseness of parts.		Х	_
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.		-		uity of 1µs. (note4) looseness of parts.		Х	_
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shoo of 11 milliseconds duration, 3 shocks in both direction mutually perpendicular directions (totally 18 shocks)	ons of 3	2) Resis Cont Shiel	tance: act : $80 \text{ m}\Omega$ max d : $100 \text{ m}\Omega$ max			х	_
Effectiveness of the connector coupling device	Applying 80 N force 60 s for the mating axis direction in fitted with applicable connector.	n in state	No unlo	cking, damage, c	cracks or looseness of	parts.	Х	_
Locking device mechanical operations	10000 cycles 20 cycles/min max		Insertion and Withdrawal Forces Insertion force 25 N max. Withdrawal force 25 N max. No damage, cracks or looseness of parts.			Х	_	
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on ti case in state in fitted with applicable connector.	p of plug	No dama	age, cracks or lo	oseness of parts.		Х	_
ENVIRONMENTAL	. CHARACTERISTICS							
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55° 85°C with 30 minutes dwell at temp. extremes and 2 minutes transition between temperatures.	to 3	Currer No bre 2) Resis Cont Shiel 3) Insula	nt leakage 2mA i eakdown. tance: act : 80 mΩ max id : 100 mΩ ma attion resistance:	. (note3)	<u>\$</u>	X	
Humidity / Temperature Cycling	Low temperature 25 °C; High temperature 65 °C; Cold sub-cycle — 10 °C; Relative humidity 93 % Duration 10 / each 24 h (IEC 60068-2-38,test Z / AD)		Currei No bre 2) Resis Cont Shiel 3) Insula 4) Insert Inser Withe	nt leakage 2mA eakdown. tance: act : 80 mΩ max id : 100 mΩ ma ation resistance: ion and Withdrav tion force 2 drawal force 2	(note3) ax. (note3) 500 MΩ min. (at dry)		X	
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 temperature of 40°C during 21 days.		1) Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No breakdown. 2) Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3) 3) Insulation resistance: 500 MΩ min. (at dry) 4) Insertion and Withdrawal Forces Insertion force 25 N max. Withdrawal force 25 N max. 5) No damage, cracks or looseness of parts.		Â	X	_	
			 Insula Insert Insert With 	ation resistance: ion and Withdrav tion force 2 drawal force 2	500 MΩ min. (at dry) wal Forces 5 N max.			
Note QT:Qualification Te	st AT:Assurance Test X:Applicable Test		3) Insula 4) Insert Inser Witho 5) No da	ation resistance: ion and Withdrav tion force 2 drawal force 2	500 MΩ min. (at dry) wal Forces 5 N max.	13-0	0-00)
	st AT:Assurance Test X:Applicable Test PECIFICATION SHEET		3) Insula 4) Insert Inser With 5) No da	ation resistance: ion and Withdravition force 2 drawal force 2 amage, cracks or	500 MΩ min. (at dry) wal Forces 5 N max. 5 N max. looseness of parts.		0-00)

	SPECIFICATIO	INS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
ENVIRONMENTAL	. CHARACTERISTICS			
Dry Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)	1) Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No breakdown. 2) Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3) 3) Insulation resistance: 500 MΩ min. (at dry) 4) Insertion and Withdrawal Forces Insertion force 25 N max. Withdrawal force 25 N max. 5) No damage, cracks or looseness of parts.	X	
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector)	1) Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No breakdown. 2) Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3) 3) Insulation resistance: 500 MΩ min. (at dry) 4) Insertion and Withdrawal Forces Insertion force: 25 N max. Withdrawal force: 25 N max. 5) No damage, cracks or looseness of parts.	X	
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (leave under unmated condition.)	No heavy corrosion of contacts.	Х	-
Mixed Flowing Gas Corrosion	Test temperature: $+25\pm1$ °C, Relative humidity: 75 ± 3 % $H_2S: 10\pm5$ ppb, $NO_2: 200\pm50$ ppb $Cl_2: 10\pm5$ ppb, $SO_2: 200\pm20$ ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4)	 Resistance: Contact: 80 mΩ max. (note3) Shield : 100 mΩ max. (note3) No damage, cracks or looseness of parts. 	X	_
Solderability	Soldering point immersed in solder bath of +245 ± 3 °C, 3 sec. (using type r flax)	Solder shall cover minimum of 95 % of the surface being immersed.	Х	_
	A profile is shown in Fig-1, under 2 cycles.	No deformation or significant looseness of contacts.	Х	_

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-129413-00-00		
3	SPECIFICATION SHEET	PART NO.	IX80G-B-10P			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0019-0-00	3	3/4

SPECIFICATIONS									
ITEM TEST METHOD REQUIREMENTS									

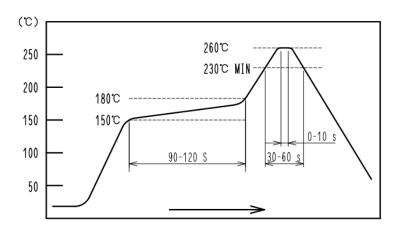


Fig – 1 Resistance to soldering heat (temperature at top surface of connector)

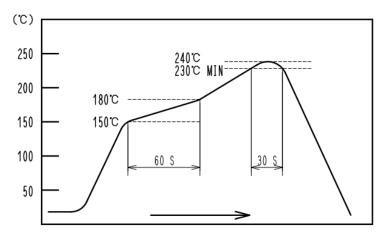


Fig – 2 Recommended reflow profile temperature (temperature at SMT leads)

Note (QT:Qı	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129413-00-00		
ЖS		SPECIFICATION SHEET	PART NO.		IX80G-B-10P		
)	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0019-0-00	<u> </u>	4/4