APPLICA	-			IEC 61076-3-124	1 `	Storogo	Tomn	eraturo		0. TO . 0000/050/5:		
Rating		Operating Temperature Range		-40°C TO +85°C(95%Rh (note1)	H max)	Storage Temperature Range		-30°C TO +60°C(95%RH max) (note1)				
Voltage		ne.	50.V.AO./60.V.D			Curre	ent		1.5 A/pin (all pin)			
Voltago			gc	50 V AC / 60 V D		,	Ouric	) I I		3 A/pin (pin No.1,2,6,7)		
				SPEC	IFICA	10IT	NS					
IT	ЕМ			TEST METHOD				RI	EQUI	REMENTS	QT	ΑΊ
CONSTR	RUC	CTION										
General Exam	inatio	on	Examined	visually and with a measuring in	strument.	,	According to drawing.				Χ	Х
Marking			Confirmed	ned visually.			According to drawing.				Χ	Χ
ELECTR	IC (	CHARA	CTERIS	STICS								
Contact Resist	tance	<b>;</b>	Measured	ed at 100 mA max (DC or 1000 Hz).			contact : 30 m $\Omega$ max. shield : 100 m $\Omega$ max.				Х	_
nsulation Res	istan	се	Measured	ed at 500 V DC.			500 Mg	$\Omega$ min.			Х	_
Voltage Proof			500 V DC	applied for 1 min. Current leakaç	ge 2mA ma	ax.	No flas	shover or b	reakdo	wn.	Х	1 –
nsertion loss			Measured	in the range of 1 to 500 MHz.		(	0.02 √	(f) dB ma	X.			
							`			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.					
				g			(Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			Х	-	
Near end crosstalk Measured			Measured	easured in the range of 1 to 500 MHz.					min. (1MHz to 250MHz)			
				-			46.04 -	6.04 – 30log(f/250) dB min. (250MHz to 500MHz)				-
						(Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)						
Far end crosstalk Measured		Measured	sured in the range of 1 to 500 MHz.			83.1 – 20log(f) dB min.						
					(Whenever the fomula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)				Х	-		
Transverse conversion loss Measured		Measured	red in the range of 1 to 500 MHz.		•	68 – 20log(f) dB min.						
					(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				Х	_		
Transverse co	nvers	sion	Measured 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.)				X	-	
MECHAN	ICA	L CHAR	ACTER	ISTICS		•						
Insertion And Withdrawal A maximu				um rate of 50 mm/min.				on force		l max.	Х	_
Forces				neasured with an applicable connector.			Withdrawal force 25 N max.  1) Resistance:					
Mechanical Op	perati	ion	5000 times insertions and extractions.  mating speed: 10 mm/s max.			ľ	1) Resistance: contact : 80 m $\Omega$ max. shield : 100 m $\Omega$ max.					
										X	_	
			rest : 5s, min.(unmated)				2) No damage, cracks or looseness of parts.			1		
Vibration			Frequency	Frequency 10 to 500 Hz			1) No electrical discontinuity of 1μs.					
			0.35 mm, 50 m/s <sup>2</sup>				2) No damage, cracks or looseness of parts.			Х	-	
00:	<u>,                                    </u>	5-4		ch of 3 mutually perpendicular as		250:5				011501755	_	<u> </u>
COUN	۱I	DES	SKIPTIC	ON OF REVISIONS	[	DESIG	NED	)		CHECKED		TE
1			DIS-E	E-00001800		JY.IO	GA		I	KI.NAGANUMA	$201810 \\ 5$	
Note								PPRO\		RI.TAKAYASU	2018	3042
Note1. Non-condensir			sing.	ing.					KI.NAGANUMA			
							С	DESIGN	IED	YS.SAKODA	2018	3042
Unless otherwise specified, refer to IEC 605			fer to IEC 60512.		DRAWI		'N_	YS.SAKODA	201804			
Note QT:Qualification Test X:Applicable Test			n Test	AT:Assurance Test		DRAWING NO.		ELC-129413-0	3-00-00			
LDC SPECIFICATION			ATION S	SHEET		PART	PART NO.			IX80G-B-10P		
CA		HIR	ROSE ELECTRIC CO., LTD.		CODE NO.		С			1	1/3	
	1							1				1

	SPECIFICATIO			,
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Fretting Corrosion	490 m/s <sup>2</sup> , 30 times/min at 1000 times.	1) No electrical discontinuity of 1μs.	.,	
		2) No damage, cracks or looseness of parts.	Х	_
Shock	Subject mated specimens to 300 m/s² half-sine shock pulses	1) No electrical discontinuity of 1µs.		
	of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)	2) No damage, cracks or looseness of parts.	Х	_
Lock Strength	Applying 80 N force for the mating axis direction in state in fitted with applicable connector.	No unlocking, damage, cracks or looseness of parts.	Х	_
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip of plug case in state in fitted with applicable connector.	No damage, cracks or looseness of parts.	Х	_
ENVIRONMENTAL	CHARACTERISTICS			
Rapid change of temperature	Subject mated specimens to 10 cycles between -55°C and	1) Voltage proof : 500 V DC applied for 1 min.		
rapia change of temperature	85°C with 30 minutes dwell at temp. extremes and 1 minute	Current leakage 2mA max.	Χ	_
	transition between temperatures.	No flashover or breakdown.		
		2) Resistance:		
		contact : 80 m $\Omega$ max.		
		shield : 100 m $\Omega$ max.		
		3)Insulation resistance: 500 M $\Omega$ min. (at dry)		
		4) No damage, cracks or looseness of parts.		
Humidity / temperature cycling	low temperature 25 °C;	Resistance:	Х	
number acute cycling	'	contact : 80 m $\Omega$ max.	^	_
	high temperature 65 °C;	shield : 100 m $\Omega$ max.		
	cold sub-cycle — 10 °C;	2)Insulation resistance: 500 M $\Omega$ min. (at dry)		
	relative humidity 93 %	3) No damage, cracks or looseness of parts.		
	duration 10 / each 24 h	3) No damage, cracks or looseness or parts.		
Dama haat ataadu atata	(IEC 60068-2-38,test Z / AD)	4) Posistance		
Damp heat, steady state	Subject mated specimens to a relative humidity of 93 % at a temperature of 40°C during 21 days.	1) Resistance: contact : 80 mΩ max.	Х	_
	3,	shield : 100 mΩ max.		
		2)Insulation resistance: 500 MΩ min. (at dry)		
		3) No damage, cracks or looseness of parts.		
Dry Heat	Subject to +85 ± 2 °C, 21 days.	1) Resistance:	Х	
Dry rieat	(mating applicable connector)	contact : 80 m $\Omega$ max.	^	_
	(maing applicable conficcion)	shield : 100 m $\Omega$ max.		
		2)Insulation resistance: 500 MΩ min. (at dry)		
		No damage, cracks or looseness of parts.		
Cold	Subject to -55 ± 3 °C, 10 days.	1) Resistance:	Х	
Oolu	(mating applicable connector)	contact : 80 m $\Omega$ max.	^	
	(mating applicable confinector)	shield : 100 m $\Omega$ max.		
		2)Insulation resistance: 500 MΩ min. (at dry)		
		No damage, cracks or looseness of parts.		
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.	No heavy corrosion of contacts.	Х	
Corresion Car Wist	(leave under unmated condition.)	The field y composition of contacts.		
Mixed flowing gas corrosion	Test temperature: +25±1 °C, Relative humidity: 75±3 %	1) Resistance:	Х	
0.0	H <sub>2</sub> S: $10\pm5$ ppb, NO <sub>2</sub> : $200\pm50$ ppb	contact : 80 m $\Omega$ max.	^	_
	Cl <sub>2</sub> : 10±5 ppb, NO <sub>2</sub> : 200±30 ppb	shield : 100 m $\Omega$ max.		
A	Leave the samples for 4 days with mated.	No damage, cracks or looseness of parts.		
<u>/1\</u>	The same is performed with unmated samples. (IEC 60512, method 4)			

Note Q	:Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-129413-00-00		
R	SPECIFICATION SHEET	PART NO.		IX80G-B-10P		
* * *	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0019-0-00	<u> </u>	2/3

SPECIFICATIONS									
ITEM	TEST METHOD	REQUIREMENTS	QT	AT					
Solderbility	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	_					
Resistance To Soldering Heat	A profile is shown in Fig-1, under 2 cycles.	No deformation or significant looseness of contacts.	Х	_					

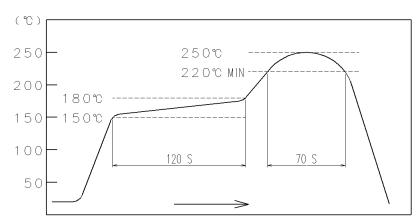


Fig – 1 Resistance to soldering heat (temperature at top surface of connector)

## Recommended profile refers to Fig -2. (temperature at SMT leads)

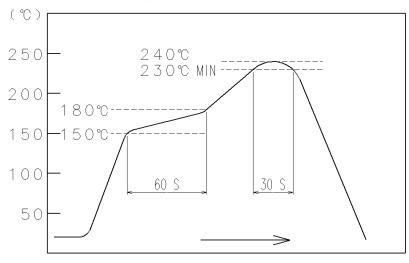


Fig – 2 Recommended reflow profile temperature

Note QT:0	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129413-00-00		
HS.	SPECIFICATION SHEET	PART NO.	IX80G-B-10P			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0019-0-00	<u>^</u>	3/3