11 1 210		E STAN		IEC 61076-3-124								
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)				
		Volta	ne.	50.1/ 40./00.1/ D			Currer	nt		1.5 A/pin (all pin)		
Voltage			ye	50 V AC / 60 V DC		Cullei	π.		3 A/pin (pin No.1,2,6	3,7)		
				SPEC	IFICA	TIOI	NS					
ļ	ITEN			TEST METHOD				RE	EQUI	REMENTS	QT	A
CONST	RUC	CTION	•									
General Exa	aminati	on	Examined	visually and with a measuring instrument.			Accordi	ng to drav	ving.		Χ	Х
Marking			Confirmed	l visually.			Accordin	ng to drav	wing.		Χ	Х
ELECT	RIC	CHARA	CTERIS	STICS								
Contact Res	sistance	e	Measured	d at 100 mA max (DC or 1000 Hz).				t : 30 mΩ : 100 m			Х	_
Insulation R	esistan	се	Measured	d at 500 V DC.			500 MΩ	min.			Х	_
Voltage Prod	of		500 V DC	C applied for 1 min. Current leakage 2mA max.			No flash	over or b	reakdo	wn.	Х	_
Insertion los	ss		Measured	sured 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	asured in the range of 1 to 500 MHz.			68 – 20log(f) dB min.					
							(Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			Х	_	
Near end cro	osstalk		Measured	in the range of 1 to 500 MHz.				94 – 20log(f) dB min. (1MHz to 250MHz)				
						46.04 – 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 cros	Far end crosstalk Meas		Measured	asured in the range of 1 to 500 MHz.			83.1 – 20log(f) dB min.					
		!			-			results in a value greater than	Х	-		
Transverse	conver	sion loss	Measured	easured in the range of 1 to 500 MHz.			75 dB, the requirement shall revert to 75 dB.) 68 – 20log(f) dB min.					
Transverse conversion loss		0.011.1000	incasarea in the range of 1 to 500 Minz.			(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				Х	-	
Transverse	conver	sion	Measured	sured 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	_
MECHAI	NICA	L CHAR	ACTER	ISTICS			, , , ,				ı	
Insertion An	d With	drawal	A maximu	m rate of 50 mm/min.			Insertion force 25 N max.			Х		
Forces	_			d with an applicable connector.			Withdrawal force 25 N max.				-	
Mechanical	Operat	ion	5000 times	000 times insertions and extractions. ating speed: 10 mm/s max.			1) Resistance:					
			mating spe							X	-	
				: 5s, min.(unmated)			2) No damage, cracks or looseness of parts.					
Vibration			requency 10 to 500 Hz			1) No electrical discontinuity of 1μs.						
			0.35 mm,	•			2) No damage, cracks or looseness of parts.				Х	-
00:	IN : T	556	1	ch of 3 mutually perpendicular ax		DECLO	\\.	ı		OUEOVED		\ <u></u>
COL		DES		ON OF REVISIONS	<u> </u>	DESIG				CHECKED		ATE
1 Note			DIS-	E-00001800		JY.IC	_		/ED	KI.NAGANUMA	2018100	
Note						APPROVED CHECKED			KI.NAGANUMA KI.NAGANUMA	2018		
Note1. Non-condensing.							DESIGN				2018062	
Unless otherwise specified, refer to IE					IEC 60512.		DRAWN		YS.SAKODA	201806		
	Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DR	DRAWING NO. ELC-129412		-01-00				
	able T	est			Į.							
	ble T		SPECIF	TICATION SHEET		PART	NO.			X80G-A-10P(01)		

ITEM	TEST METHOD	REQUIREMENTS	QT	Α
Fretting Corrosion	490 m/s ² , 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/s ² 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.		
J J	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 Ω max.		
		shield : 100 m Ω max.		
		3)Insulation resistance: 500 M Ω min. (at dry)		
		4) No damage, cracks or looseness of parts.		
Humidity / temperature cycling	low temperature 25 °C;	1) Resistance:	Х	
	high temperature 65 °C;	contact : 80 mΩ max.		
	cold sub-cycle = 10 °C;	shield : 100 m Ω max.		
	relative humidity 93 %	2)Insulation resistance: 500 M Ω min. (at dry)		
	duration 10 / each 24 h	3) No damage, cracks or looseness of parts.		
	(IEC 60068-2-38,test Z / AD)			
Damp heat, steady state	Subject mated specimens to a relative humidity of 93 % at a	1) Resistance:	Х	
	temperature of 40°C during 21 days.	contact : 80 mΩ max.		
		shield : 100 m Ω max.		
		2)Insulation resistance: 500 M Ω min. (at dry)		
		3) No damage, cracks or looseness of parts.		
Dry Heat	Subject to +85 ± 2 °C, 21 days.	1) Resistance:	Χ	
	(mating applicable connector)	contact : 80 mΩ max.		
		shield : 100 m Ω max.		
		2)Insulation resistance: 500 M Ω min. (at dry)		
		3) No damage, cracks or looseness of parts.		
Cold	Subject to -55 ± 3 °C, 10 days.	1) Resistance:	Χ	
	(mating applicable connector)	contact : 80 m Ω max.		
		shield : 100 m Ω max.		
		2)Insulation resistance: 500 M Ω min. (at dry)		
		3) 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	
	(leave under unmated condition.)			
Mixed flowing gas corrosion	Test temperature : +25±1 °C, Relative humidity : 75±3 %	1) Resistance:	Χ	
	H ₂ S: 10±5 ppb, NO ₂ : 200±50 ppb	contact : 80 mΩ max.		
\triangle	Cl ₂ : 10±5 ppb, SO ₂ : 200±20 ppb Leave the samples for 4 days with mated. The same is performed with unmated samples.	shield : 100 m Ω max. 2) No damage, cracks or looseness of parts.		
	(IEC 60512, method 4)			

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129412-01-00		
ЖS	SPECIFICATION SHEET	PART NO.	IX80G-A-10P(01)			
1	HIROSE ELECTRIC CO., LTD.	CODE NO	CL25	1-0018-0-01	<u> </u>	2/3

SPECIFICATIONS										
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ						
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	_						

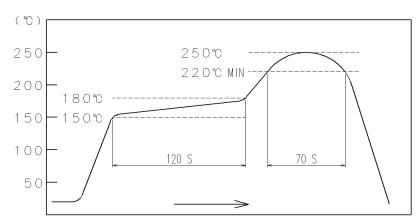


Fig – 1 Resistance to soldering heat (temperature at top surface of connector)

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

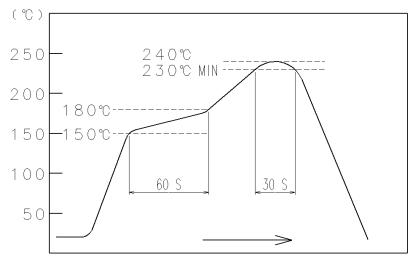


Fig – 2 Recommended reflow profile temperature

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-129412-01-00		
HS.	SPECIFICATION SHEET	PART NO.	IX80G-A-10P(01)			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL25	1-0018-0-01	À	3/3