APPLICA	BLE STAN	DARD	IEC 61076-3-124		_						
PATING	RATING Voltage		-40°C to +85°C(95%RH (note1,2)	I max)	Storage Temperature Range		-30° (note	0°C to +60°C(95%RH max) ote1)			
NATINO .				`	C	Current	t		1.5 A/pin (all pin)		
		0	30 V AC / 80 V DC						3 A/pin (pin No.1,2,6,7	')	
			SPECI	IFICA		IS					1
	EM		TEST METHOD				F	REQU	IREMENTS	QT	AT
CONSTR		1									
General Exam	ination		visually and with a measuring ins	strument.			g to drav			Х	X
Marking		Confirmed visually.			Ad	According to drawing.				Х	Х
	IC CHARA					0	. 00 0		(1
Contact Resist	ance	Measured at 100 mA max (DC or 1000 Hz).					: 30 mΩ : 100 m		(note3) . (note3)	Х	_
Insulation Res	istance	Measured at 500 V DC.				00 MΩ I			<u>, , , , , , , , , , , , , , , , , , , </u>	Х	
Voltage Proof		500 V DC	applied for 1 min. Current leakag	ge 2mA ma:	x. No	lo break	down.		6	Х	
Insertion Loss		Measured in the range of 1 to 500 MHz.			0.	.02 √(1	f) dB ma	х.			
					`	(Whenever the formula results in a value less than 0.1 dB, the requirement shall revert to 0.1 dB.)			Х	_	
Return Loss		Measured	Measured in the range of 1 to 500 MHz.			68 – 20log(f) dB min.			х		
							(Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)				_
Near end Crosstalk		Measured	Measured in the range of 1 to 500 MHz.			94 – 20log(f) dB min. (1MHz to 250MHz)					
			Ū			46.04 – 30log(f/250) dB min. (250MHz to 500MHz)				х	-
						(Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)					
Far end crosst	alk	Measured	Measured in the range of 1 to 500 MHz.			83.1 – 20log(f) dB min.					
					(V	(Whenever the formula results in a value greater than				х	_
									shall revert to 75 dB.)		
Transverse Co	nversion Loss	Measured in the range of 1 to 500 MHz.					og(f) dB r		results in a value greater than	v	
					•	50 dB, the requirement shall revert to 50 dB.)				Х	
Transverse Co	nversion	Measured in the range of 1 to 500 MHz.			68	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.)				Х	-
MECHAN	CAL CHAR	ACTER	ISTICS								
			mum rate of 50 mm/min.			Insertion force 25 N max.				Х	_
Forces		Measured by applicable connector.			W	Withdrawal force 25 N max.					
Mechanical Operation		5000 times	5000 times insertions and extractions.			1) Resistance: Contact : 80 m Ω max. (note3) Shield : 100 m Ω max. (note3)				x	_
		Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)				2) No damage, cracks or looseness of parts.					
Note		,	(1
1. Non-conde	nsing. 2. The	operation ter	mperature includes the temperate	ure rise by	current car	rrying					
	conductor resista										
		e applicable	to the contacts and shield except	ot for contac	cts No. 3 a	and 8.					
COUN	T DI	ESCRIPTI	ON OF REVISIONS	ļ	DESIGN	IED			CHECKED	DA	TE
6 7		DIS-I	E-00016077	<u> </u>	MT.YASU	-			KI.KAGOTANI	2024	
REMARK									RI.TAKAYASU	2017	
								ED	KI.NAGANUMA TS.SAKAIZAWA	2017 2017	
I place otherwise specified refer to IEC 60542				DRAW			TS.SAKAIZAWA	20170411			
Unless otherwise specified, refer to IEC 60512. Note QT:Qualification Test AT:Assurance Test X:Applicable Test			est	DRA	DRAWING NO. ELC-129431-						
107	S	PECIEI	CATION SHEET		PART NO.						
									. 1	1/3	
	HIR	OSE FI	LECTRIC CO., LTD.		CODE N	NO.		025	51-0022-0-01 / 2	<u>U</u>	1/0

FOR

	SPECIFIC	JATIO	UND			1
ITEM	TEST METHOD			REQUIREMENTS	QT	A
/ibration ,sinusoidal	Frequency 10 to 500 Hz		1) No ele	ctrical discontinuity of 1µs. (note4)		
	0.35 mm, 50 m/s ²		2) No dar	x	_	
	2hrs in each of 3 mutually perpendicular axis.					
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.		1) No ele	ctrical discontinuity of 1µs. (note4)		
			2) No dar	mage, cracks or looseness of parts.	Х	-
Mechanical Shock	Subject mated specimens to 300 m/s ² half-sine s	shock pulses	1) No ele	electrical discontinuity of 1µs. (note4)		
	of 11 milliseconds duration, 3 shocks in both dire	ations of 2	2) Resist	Х	-	
	mutually perpendicular directions (totally 18 shoc		·	let : 80 m Ω max. (note4)		
			Shield	d :100 mΩ max. (note4)		
			3) No dar	mage, cracks or looseness of parts.		
Effectiveness of the cons	Applying 20 N force C0 a far the motion avia direct	ation in state	No unloci			
Effectiveness of the conr coupling device	Applying 80 N force 60 s for the mating axis direct in fitted with applicable connector.	ction in state	NO UNIOCI	king, damage, cracks or looseness of parts.	Х	-
Locking device mechanic			1) Insertion and Withdrawal Forces			l
operations	20 cycles/min max		<i>,</i>	ion force 25 N max.	Х	-
			Withd	rawal force 25 N max.		
			2) No dar	mage, cracks or looseness of parts.		
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction o	on tip of plug	No dama	ae cracks or looseness of parts	V	-
Wichening Ottength	case in state in fitted with applicable connector.	on up of plug	No dama		X	-
ENVIRONMEN	TAL CHARACTERISTICS					
Rapid Change of Tempe	rature Subject mated specimens to 10 cycles between -	-55°C and	1) Voltag	e proof : 500 V DC applied for 1 min.		
	85°C with 30 minutes dwell at temp. extremes an		Current leakage 2mA max.			-
	minutes transition between temperatures.		No bre			
			2) Resist			
			Conta	ict : 80 m Ω max. (note3)		
			Shield	d : 100 mΩ max. (note3)		
			 Insulat 	ion resistance: 500 M Ω min. (at dry)		
			4) No dar	mage, cracks or looseness of parts.		
						-
Humidity / Temperature Cycling	Low temperature 25 °C;			e proof : 500 V DC applied for 1 min.	X	-
Cycling	High temperature 65 °C;			t leakage 2mA max.		
	Cold sub-cycle – 10 °C;			akdown.		
	Relative humidity 93 %		2) Resista	ance: ict : 80 mΩ max. (note3)		
	Duration 10 / each 24 h			d : 100 mΩ max. (note3)		
	(IEC 60068-2-38,test Z / AD)			ion resistance: 500 M Ω min. (at dry)		
			-	on and Withdrawal Forces		
			<i>,</i>	ion force 25 N max.		
			Withd	rawal force 25 N max.		
			5) No dar	mage, cracks or looseness of parts.		
Damp Heat, Steady State	e Subject mated specimens to a relative humidity of	of 93 % at a	1) Voltag	e proof : 500 V DC applied for 1 min.	Х	_
	temperature of 40°C during 21 days.	temperature of 40°C during 21 days.				
			No bre	akdown. 🔏		
			2) Resist	ance:		
			Conta	act : 80 m Ω max. (note3)		
			Shield	d :100 mΩ max. (note3)		
			-	ion resistance: 500 M Ω min. (at dry)		
			·	on and Withdrawal Forces		
				ion force 25 N max.		
				rawal force 25 N max.		
			J) NO Gar	mage, cracks or looseness of parts.		
	Note QT:Qualification Test AT:Assurance Test X:Applicable Test		•		01_0	0
Note QT:Qualificatio	n Test AT:Assurance Test X:Applicable Test	DI	RAWIN	G NO. ELC-129431-	01-0	0
	n Test AT:Assurance Test X:Applicable Test SPECIFICATION SHEET	DI		G NO. ELC-129431- IX40G-A-10S-CV(7.0)		0

FORM HD0011-2-2

ITEM	SPECIFICAT			QT	A٦
			REQUIREMENTS	QI	А
	CHARACTERISTICS				1
Dry Heat	Subject to +85 \pm 2 °C, 21 days.		Itage proof : 500 V DC applied for 1 min.	Х	-
	(mating applicable connector)		rrent leakage 2mA max.		
			breakdown.		
		-			
			ontact : 80 m Ω max. (note3)		
			hield : 100 m Ω max. (note3)		
		,	sulation resistance: 500 M Ω min. (at dry)		
			sertion and Withdrawal Forces sertion force 25 N max.		
			/ithdrawal force 25 N max.		
		5) NC	a damage, cracks or looseness of parts.		
Cold	Subject to -55 \pm 3 °C, 10 days.	1) Vo	Itage proof : 500 V DC applied for 1 min.	x	İ _
	(mating applicable connector)		rrent leakage 2mA max.		
	(breakdown.		
			esistance:		
		,	ontact : 80 m Ω max. (note3)		1
			hield : 100 m Ω max. (note3)		1
			sulation resistance: 500 M Ω min. (at dry)		
			sertion and Withdrawal Forces		
		In	sertion force 25 N max.		
		W	/ithdrawal force 25 N max.		
		5) No	a damage, cracks or looseness of parts.		
Corrosion Salt Mist	Subject to 5 % salt water, 35 \pm 2 °C, 48h.	No I	neavy corrosion of contacts.	x	
	(leave under unmated condition.)				
Mixed Flowing Gas Corrosion	Test temperature : +25±1 °C, Relative humidity : 75±	=3 % 1) Re	esistance:	X	_
	H_2S : 10±5 ppb, NO ₂ : 200±50 ppb	С	ontact : 80 m Ω max. (note3)		
	$Cl_2: 10\pm 5 \text{ ppb}, SO_2: 200\pm 20 \text{ ppb}$		hield : 100 m Ω max. (note3)		
	Leave the samples for 4 days with mated.	2) NO	damage, cracks or looseness of parts.		
	The same is performed with unmated samples. (IEC 60512, method 4)				
Solderability	Temperature +350 \pm 10 °C, 3 sec at soldering parts.		etting on solder surface.) solder cluster.	Х	_
		2,110			
Resistance To	Temperature +350 ± 10 °C, 5 sec at soldering parts.	No da	amage, cracks or looseness of parts.	x	_
Soldering Heat					
			/ING NO. ELC-129431		
		DRAW PART NO			