APPLICA	BLE STAN	DARD	IEC 61076-3-124							
	Operating Temperature Range		-40°C to +85°C(95%RH max)		Storage Temperature Range		-30°C to +60°C(95%RH max)			
RATING	-	<u>/1\</u>	(note1,2)				(note	<u>'</u>		
Voltage		ge	50 V AC / 60 V DC		Cur	rent		1.5 A/pin (all pin) 3 A/pin (pin No.1,2,6,7	7)	
			SPECIFIC/	ATIO	NS	}		0 / Vp (p 10:1.,2,0,7	,	
17	ГЕМ			1110	110		DEOL	UDEMENTS	QT	
	RUCTION		TEST METHOD				REQU	JIREMENTS	ŲΙ	AT
General Exam		Examined	visually and with a measuring instrument		Acco	ording to drav	wing.		Х	Х
Marking					Acco	According to drawing.			Χ	Х
ELECTR	IC CHARA	CTERIS	STICS						l	
Contact Resistance		Measured	sured at 100 mA max (DC or 1000 Hz).			Contact : $30 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)			Х	_
Insulation Res	istance	Measured	at 500 V DC.		500 [M Ω min.			Χ	_
Voltage Proof		500 V DC	applied for 1 min. Current leakage 2mA n	пах.	No fla	ashover or b	reakdo	own.	Χ	_
Insertion Loss		Measured in the range of 1 to 500 MHz.				0.02 √(f) dB max.				
					1 '	(Whenever the formula results in a value less than 0.1 dB, the requirement shall revert to 0.1 dB.)			Х	-
Return Loss		_			68 –	68 – 20log(f) dB min.				
					,	(Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			_	
Near end Crosstalk		Measured in the range of 1 to 500 MHz.			94 –	94 – 20log(f) dB min. (1MHz to 250MHz)				
								min. (250MHz to 500MHz)	Χ	_
					,			results in a value greater than shall revert to 75 dB.)		
Far end crosstalk Me		Measured	in the range of 1 to 500 MHz.		83.1	– 20log(f) dl	B min.			
					,			results in a value greater than shall revert to 75 dB.)	Х	_
Transverse Co	onversion Loss	Measured	in the range of 1 to 500 MHz.			20log(f) dB			Х	
						(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_
Transverse Conversion Transfer Loss		Measured in the range of 1 to 500 MHz.				20log(f) dB				
						(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				-
MECHAN	ICAL CHAR	RACTERI	ISTICS			_,			I	1
Insertion and \			m rate of 50 mm/min.		Inser	rtion force	25 1	N max.	Χ	_
Forces		Measured by applicable connector.			Withdrawal force 25 N max.					
Mechanical Operation		5000 times	s insertions and extractions.		1) Re	esistance:				
				Λ		ntact : 80 mg		` '	Χ	_
		Mating speed: 10 mm/s max.				Shield : 100 mΩ max. (note3) 2) No damage, cracks or looseness of parts.				
Note		Rest : 5s, r	min.(unmated)		2) 140	o damage, c	iacks c	il looselless of parts.		
Note 1. Non-conde	oneina 2 The c	operation ter	nperature includes the temperature rise b	v current	carryi	na				
	conductor resista	-		,, ouncil	ouri yii	9				
			to the contacts and shield except for con	tacts No.	3 and	8.				
COUN	IT DE	SCRIPTION	ON OF REVISIONS	DESIGN		SNED		CHECKED		TE
18		DIS-I	E-00003730	MT.YA	SUD	A		KI.KAGOTANI	2021	0317
REMARK	L .		1			APPROV		MN.KENJO	2019	1209
					Г	CHECK	ED _	1/1 1/1 0 0 1 1 1 1 1 1 1	0040	4000



	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		DA	ATE	
\bigvee	18	DIS-E-00003730		MT.YASUD	ıΑ		KI.KAGOTANI	202	10317	
REI	MARK			APPROVED		MN.KENJO	2019	91209		
				CHECKED		KI.NAGANUMA	2019	91209		
					DESIGNED		MT.YASUDA 2		20191209	
Unless otherwise specified, refer to IEC 60512.					DRAWN		YK.MITSUISHI 20		91209	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			st	DRAW	DRAWING NO.		ELC-129987-00-00		0	
1	RS -	SPECIFICATION SHEET		PART NO	O. IX40G-A-10S-CVL1(7.0)					
	. ~	HIROSE ELECTRIC CO., LTD.		CODE NO	O. CL0251-0075-0-00		1-0075-0-00	<u> </u>	1/3	

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	SPECIFICA	ΠΟ	NS				
ITEM	TEST METHOD			REQU	IREMENTS	QT	A.
Vibration ,sinusoidal	Frequency 10 to 500 Hz	A	1) No ele	ectrical discontin	uity of 1µs. (note4)		
	0.35 mm, 50 m/s ²	<u>/1\</u>	2) No da	amage, cracks o	looseness of parts.	Х	-
	2hrs in each of 3 mutually perpendicular axis.						
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.	Λ	-		uity of 1μs. (note4)	X	
			2) No da	amage, cracks o	looseness of parts.	^	
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shock pulse			ectrical discontin	uity of 1µs. (note4)	\ \ \	
	of 11 milliseconds duration, 3 shocks in both directions mutually perpendicular directions (totally 18 shocks)	of 3	2) Resis			X	-
	Thatdany perpendicular directions (totally 10 shocks)	\triangle		act : 80 mΩ max			
				ld : 100 mΩ ma	, ,		
			3) NO Ua	illage, cracks of	looseness of parts.		
	11 7 3	e in	No unlo	cking, damage, o	cracks or looseness of parts	. X	-
coupling device Locking device mechanical	fitted with applicable connector. 10000 cycles		1) Incort	ion and Withdra	wal Forces		+
pperations	20 cycles/min max		,		5 N max.	Х	-
•	20 Gyoles/IIIII IIIax		With				
			2) No da	amage, cracks o	looseness of parts.		
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip of	of plug	No dam:	age cracks or lo	oseness of parts.	- V	
Trending Change	case in state in fitted with applicable connector.	or plug	110 dam	ago, ordono or io	occinede of parte.	X	-
<u>ENVIRONMENTAL</u>	CHARACTERISTICS						
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55°C and			ge proof : 500 V	DC applied for 1 min.	Х	
\bigwedge	85°C with 30 minutes dwell at temp. extremes and 2 to	3	Curre	Current leakage 2mA max.			-
	minutes transition between temperatures.		No fla	shover or break	down.		
			2) Resis		4		
		\bigwedge		act : 80 mΩ max			
				ld: 100 mΩ ma			
			-		500 M Ω min. (at dry) looseness of parts.		
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Humidity / Temperature	Low temperature 25 °C;	Λ	1) Voltag	ge proof : 500 V	DC applied for 1 min.	Х	-
Cycling	High temperature 65 °C;		Curre	nt leakage 2mA	max.		
	Cold sub-cycle - 10 °C;		No fla	shover or break	down.		
	Relative humidity 93 %		2) Resis	tance:			
	Duration 10 / each 24 h		Cont	act : 80 mΩ max	(note3)		
	(IEC 60068-2-38,test Z / AD)		Shiel	ld : 100 mΩ ma	ax. (note3)		
					500 MΩ min. (at dry)		
				ion and Withdra tion force 2	wal Forces 5 N max.		
					25 N max.		
				5) No damage, cracks or looseness of parts.			
			0) 110 00	image, eraene er	recessions of parter		
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a		1) Voltaç	ge proof : 500 V	DC applied for 1 min.	Х	-
	temperature of 40°C during 21 days.			Current leakage 2mA max.			
			No fla	shover or break	down.		
			2) Resis				
				act : 80 m Ω max			
				Shield : 100 mΩ max. (note3)			
				3) Insulation resistance: 500 MΩ min. (at dry)4) Insertion and Withdrawal Forces			
			· ·		5 N max.		
				Withdrawal force 25 N max.			
			5) No da	amage, cracks o	looseness of parts.		
Nete OT O 100 11	ATA		DAVA	10 NO	ELO 100007	00.0	
	''		DRAWING NO. ELC-129987-0			U	
^	PECIFICATION SHEET PAR		ART NO. IX40G-A-10S-CVL1(7		(7.0)		
HS S	PECIFICATION SHEET	PARI	NO.	IX4U	G-A-10S-CVL1	(7.0)	1

	SPECIFICA	<u>OIT.</u>	NS			
ITEM	TEST METHOD		R	EQUIREMENTS	QT	АТ
ENVIRONMENTA	AL CHARACTERISTICS					
Dry Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)	<u> </u>	Current leakage No flashover or 2) Resistance: Contact: 80 m Shield: 100 r 3) Insulation resist 4) Insertion and W Insertion force Withdrawal force	breakdown. Ω max. (note3) Ω max. (note3) Ω max. (note3) Ω min. (at dry)	X	
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector)	<u> </u>	Current leakage No flashover or 2) Resistance: Contact: 80 m Shield: 100 r 3) Insulation resist 4) Insertion and W Insertion force Withdrawal force	breakdown. Ω max. (note3) Ω max. (note3) Ω max. (note3) Ω min. (at dry)	X	_
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (leave under unmated condition.)		No heavy corrosi	on of contacts.	Х	_
Mixed Flowing Gas Corrosio	,	5±3 %	Shield: 100 r	Ω max. (note3) $n\Omega$ max. (note3) acks or looseness of parts.	X	_
Solderability	Temperature +350 ± 10 °C, 3 sec at soldering parts.		Wetting on sold No solder cluster		Х	_
Resistance To Soldering Heat	Temperature +350 ± 10 °C, 5 sec at soldering parts.		No damage, crack	s or looseness of parts.	Х	-
Note QT:Qualification 1	Test AT:Assurance Test X:Applicable Test	D	RAWING NO.	ELC-129987	7-00-0	0

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CL0251-0075-0-00

CODE NO

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