	BLE STANDARD Operating Temperature Range Voltage					age Temperature				
D. //					Range			-30°C TO +60°C(95%RH max) (note1)		
Rating					C	Current		1.5 A/pin (all pin) 3 A/pin (pin No.1,2,6,7)		
			SPEC	IFICA		IS		3 A/pin (pin 10.1,2,0	,,,,	
			TEST METHOD	_					QT	A
	rem Ruction						REQ	UIREMENTS	QI	A
General Exam		Examined visually and with a measuring instrument.				According to drawing.				Х
Marking		Confirmed visually.			A	According to drawing.				X
ELECTR			STICS						X	1
Contact Resis		Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m Ω max. Shield : 100 m Ω max.			Х	-
Insulation Resistance		Measured at 500 V DC.				500 MΩ min.			Х	-
Voltage Proof	:	500 V DC applied for 1 min. Current leakage 2mA max.				lo flashove	er or break	down.	Х	_
Insertion Loss		Measured in the range of 1 to 500 MHz.				0.02 $\sqrt{(f)}$ dB max. (Whenever the formula results in a value less than 0.1 dB, the requirement shall revert to 0.1 dB.)			x	_
Return Loss		Measured 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.)			x	_
Near end Cro	sstalk	Measured in the range of 1 to 500 MHz.			9- 4((V	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.)			x	_
Far end Crosstalk		Measured in the range of 1 to 500 MHz.			8: (V	 83.1 – 20log(f) dB min. (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.) 			x	_
Transverse Conversion Loss		Measured in the range of 1 to 500 MHz.			64 (V	68 – 20log(f) dB min. (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.			68 (V	 68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.) 			x	_
MECHAN	ICAL CHAF	RACTER	STICS		5	o ub, the	requireme		1	I
Insertion And Forces	Withdrawal	A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.			X	
Mechanical Operation		5000 times Mating spe	Measured by applicable connector. 5000 times insertions and extractions. Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)			1) Resistance: Contact : 80 m Ω max. Shield : 100 m Ω max. 2) No damage, cracks or looseness of parts.			x	-
Vibration		Frequency 10 to 500 Hz 0.35 mm, 50 m/s ² 2hrs in each of 3 mutually perpendicular axis.				 No electrical discontinuity of 1μs. No damage, cracks or looseness of parts. 			x	_
COU	NT DES		N OF REVISIONS	1	DESIGN	NED		CHECKED	DA	TE
<u>A</u> 1		DIS-E	-00001800		JY.IG	GA		KI.NAGANUMA	2018 ع	310 5
Note						APPRO CHECI			201703	
	on-condens herwise spe	ing. cified, refer to IEC 60512.				DES	BIGNEE		201703 201703 201703	
Note QT:C	Qualification Te	st AT:Ass	surance Test X:Applicable T	est	DRA	DRAWING NO. ELC-129486-00				
		SPECIFICATION SHEET					X31G-B-10S-CV (7. 0			
RS	HIF	ROSE ELECTRIC CO., LTD.				NO.			<u>^</u>	1/2
				1						

ITEM		1		1	-
	TEST METHOD		REQUIREMENTS	QT	A
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.		1) No electrical discontinuity of 1µs.		
			amage, cracks or looseness of parts.	Х	_
Shock	Subject mated specimens to 300 m/s ² half-sine shock pu of 11 milliseconds duration, 3 shocks in both directions o mutually perpendicular directions (totally 18 shocks)	4.0	ectrical discontinuity of 1μs. amage, cracks or looseness of parts.	х	_
ock Strength	Applying 80 N force for the mating axis direction in state fitted with applicable connector.	in No unlo	cking, damage, cracks or looseness of parts.	x	_
Vrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip of case in state in fitted with applicable connector.	plug No dam	age, cracks or looseness of parts.	х	_
ENVIRONMENTAL	_ CHARACTERISTICS				
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55°C at 85°C with 30 minutes dwell at temp. Extremes and 1 min transition between temperatures.	nute Curre No fla 2) Resis Cont Shie 3) Insula	act : 80 mΩ max. ld : 100 mΩ max. ation resistance: 500 MΩ min. (at dry)	x	_
			amage, cracks or looseness of parts.		_
Iumidity / 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)	Shie 2) Insula	act : 80 m Ω max. ld : 100 m Ω max. ation resistance: 500 M Ω min. (at dry) amage, cracks or looseness of parts.	X	
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 %	at a 1) Resis	stance.	Х	
	temperature of 40°C during 21 days.	Shie 2) Insula	act : 80 m Ω max. ld : 100 m Ω max. ation resistance: 500 M Ω min. (at dry) amage, cracks or looseness of parts.		
Dry Heat	Subject to +85 \pm 2 °C, 21 days. (mating applicable connector)		 Resistance: Contact : 80 mΩ max. Shield : 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 		_
Cold	Subject to -55 \pm 3 °C, 10 days. (mating applicable connector)	1) Resis Cont Shie 2) Insula	 Resistance: Contact : 80 mΩ max. Shield : 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 		
Corrosion Salt Mist	Subject to 5 % salt water, 35 \pm 2 °C, 48h.		No heavy corrosion of contacts.		
Mixed Flowing Gas Corrosion	$\label{eq:constraint} \begin{array}{c} (\text{leave under unmated condition.}) \\ \\ \text{Test temperature : +25±1 °C, Relative humidity : 75±:} \\ \\ \text{H}_2\text{S} : 10\pm5 \text{ ppb, NO}_2 : 200\pm50 \text{ ppb} \\ \\ \text{Cl}_2 : 10\pm5 \text{ ppb, SO}_2 : 200\pm20 \text{ ppb} \\ \\ \text{Leave the samples for 4 days with mated.} \\ \\ \text{The same is performed with unmated samples.} \\ (\text{IEC 60512, method 4}) \end{array}$	Cont	 Resistance: Contact : 80 mΩ max. Shield : 100 mΩ max. No damage, cracks or looseness of parts. 		