	BLE STANDARD Operating Temperature Range Voltage					rage Temperature					
					Range			-30°C TO +60°C(95%RH max) (note1)		)	
Rating					C			1.5 A/pin (all pin) 3 A/pin (pin No.1,2,6,7)			
			SPEC	IFICA		IS			5 A/pin (pin No. 1,2,0	,,,)	
			TEST METHOD	_						QT	A
							KE	QUI	REMENTS	QI	A
General Exam		Examined	visually and with a measuring in	nstrument.	А	ccording	to drawii	ng.		Х	X
Marking		Confirmed visually.			A	According to drawing.				X	Х
ELECTR	IC CHARA		STICS					_		1	
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m $\Omega$ max. Shield : 100 m $\Omega$ 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 flashov	er or bre	eakdo	wn.	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 Crosstalk		Measured in the range of 1 to 500 MHz.			9 4 (\	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 (\	<ul> <li>83.1 – 20log(f) dB min.</li> <li>(Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)</li> </ul>			x	_	
Transverse Conversion Loss		Measured in the range of 1 to 500 MHz.			6 (\	<ul> <li>68 – 20log(f) dB min.</li> <li>(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)</li> </ul>				x	_
Transverse Conversion Transfer Loss		Measured in the range of 1 to 500 MHz.			6 (\	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	RACTERI	STICS		þ	ы ab, the	requiren	nents	shall revent to 50 db.)		
Insertion And Forces		A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.			Х	-	
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 $\Omega$ max. Shield : 100 m $\Omega$ max. 2) No damage, cracks or looseness of parts.			x	_	
Vibration		Frequency 10 to 500 Hz 0.35 mm, 50 m/s <sup>2</sup> 2hrs in each of 3 mutually perpendicular axis.			1	<ol> <li>No electrical discontinuity of 1μs.</li> <li>No damage, cracks or looseness of parts.</li> </ol>			x	_	
COUN	IT DES		N OF REVISIONS	1	DESIGN	NED			CHECKED	DA	TE
$\frac{3}{1}$			-00001800		JY.IG	A					310 5
Note						APPROV			RI.TAKAYASU	201703	
	on-condens nerwise spe	•	g. fied, refer to IEC 60512.			DES	DESIGNED		KI.NAGANUMA HT.SATO HT.SATO	2017032 2017032 2017032 2017032	
Note QT:Q	ualification Te	st AT:Ass	surance Test X:Applicable T	est	DR	DRAWING NO. ELC-129485-0					
		SPECIFICATION SHEET			PART NO.		-	IX31G-A-10S-CV (7. 0) (			,
RS	HIR	ROSE ELECTRIC CO., LTD.			CODE I	NO.				<u>^</u>	1/2

ITEM		IONS		1	1	
	TEST METHOD		REQUIREMENTS	QT	A	
Fretting Corrosion	490 m/s <sup>2</sup> , 30 times/min at 1000 times.	1) No e	1) No electrical discontinuity of 1µs.			
		2) No d	amage, cracks or looseness of parts.	Х		
Shock	Subject mated specimens to 300 m/s <sup>2</sup> half-sine shock pu of 11 milliseconds duration, 3 shocks in both directions of mutually perpendicular directions (totally 18 shocks)		<ol> <li>No electrical discontinuity of 1μs.</li> <li>No damage, cracks or looseness of parts.</li> </ol>			
ock Strength	Applying 80 N force for the mating axis direction in state fitted with applicable connector.	in No unic	cking, damage, cracks or looseness of parts.	х	_	
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	_	
ENVIRONMENTA	_ CHARACTERISTICS					
Rapid Change of Temperatur	e Subject mated specimens to 10 cycles between -55°C a 85°C with 30 minutes dwell at temp. Extremes and 1 mir transition between temperatures.	nute Curre No fla 2) Resis Con Shie 3) Insul	tact : 80 m $\Omega$ max. eld : 100 m $\Omega$ max. ation resistance: 500 M $\Omega$ min. (at dry)	x	_	
		4) No d	amage, cracks or looseness of parts.			
łumidity / 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) Insul	stance: tact : 80 m $\Omega$ max. eld : 100 m $\Omega$ max. ation resistance: 500 M $\Omega$ 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) Resi	stance:	Х		
	temperature of 40°C during 21 days.	Shie 2) Insul	tact : 80 m $\Omega$ max. eld : 100 m $\Omega$ max. ation resistance: 500 M $\Omega$ min. (at dry) amage, cracks or looseness of parts.			
Dry Heat	Subject to +85 $\pm$ 2 °C, 21 days. (mating applicable connector)	Shie 2) Insul	stance: tact : 80 m $\Omega$ max. eld : 100 m $\Omega$ max. ation resistance: 500 M $\Omega$ min. (at dry) amage, cracks or looseness of parts.	X	_	
Cold	Subject to -55 $\pm$ 3 °C, 10 days. (mating applicable connector)	1) Resi Con Shie 2) Insul	<ol> <li>Resistance: Contact : 80 mΩ max. Shield : 100 mΩ max.</li> <li>Insulation resistance: 500 MΩ min. (at dry)</li> </ol>			
Corrosion Salt Mist	Subject to 5 % salt water, $35 \pm 2 \circ C$ , 48h.		<ol> <li>No damage, cracks or looseness of parts.</li> <li>No heavy corrosion of contacts.</li> </ol>			
	(leave under unmated condition.)			X		
Aixed Flowing Gas Corrosion	Test temperature : +25±1 °C, Relative humidity : 75± H <sub>2</sub> S : 10±5 ppb, NO <sub>2</sub> : 200±50 ppb Cl <sub>2</sub> : 10±5 ppb, SO <sub>2</sub> : 200±20 ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4)	Con	<ol> <li>Resistance: Contact : 80 mΩ max. Shield : 100 mΩ max.</li> <li>No damage, cracks or looseness of parts.</li> </ol>			