

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-10 °C TO +60 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 100 V, DC 140 V		
	CURRENT	1 A	APPLICABLE CABLE	

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	GT	AT
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#### CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×

#### ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A	10 mΩ MAX.	×	×
INSULATION RESISTANCE	100 V DC.	200 MΩ MIN.	×	×
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×

#### MECHANICAL CHARACTERISTICS

CONTACT INSERTION AND WITHDRAWAL FORCES	$\phi 0.610^{+0}_{-0.003}$ BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.2 N.	×	×
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 50 N MAX.	×	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 15 mΩ MAX.	×	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
SHOCK	490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—

#### ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 2 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 20 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T <sup>(1)</sup> → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 200 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	×	—
DRY HEAT	EXPOSED AT + 85 °C, 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
COLD	EXPOSED AT - 55 °C, 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, + 350 ± 10 °C, FOR SOLDERING DURATION, 3 ~ 4 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, + 350 ± 10 °C FOR SOLDERING DURATION, 2 ~ 3 s.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	×	—

#### REMARKS

NOTE(1) R/T : ROOM TEMPERATURE  
**FOR REFERENCE ONLY**  
**Subject to change without notice**  
 Unless otherwise specified, refer to JIS C 5402.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
<i>S. Kawanishi</i>	<i>D. Matsume</i>	<i>E. Kurii</i>	<i>M. Sato</i>	
06.01.07	06.01.19	06.01.19	06.01.19	



Note QT:Qualification Test AT:Assurance Test ×:Applicable Test

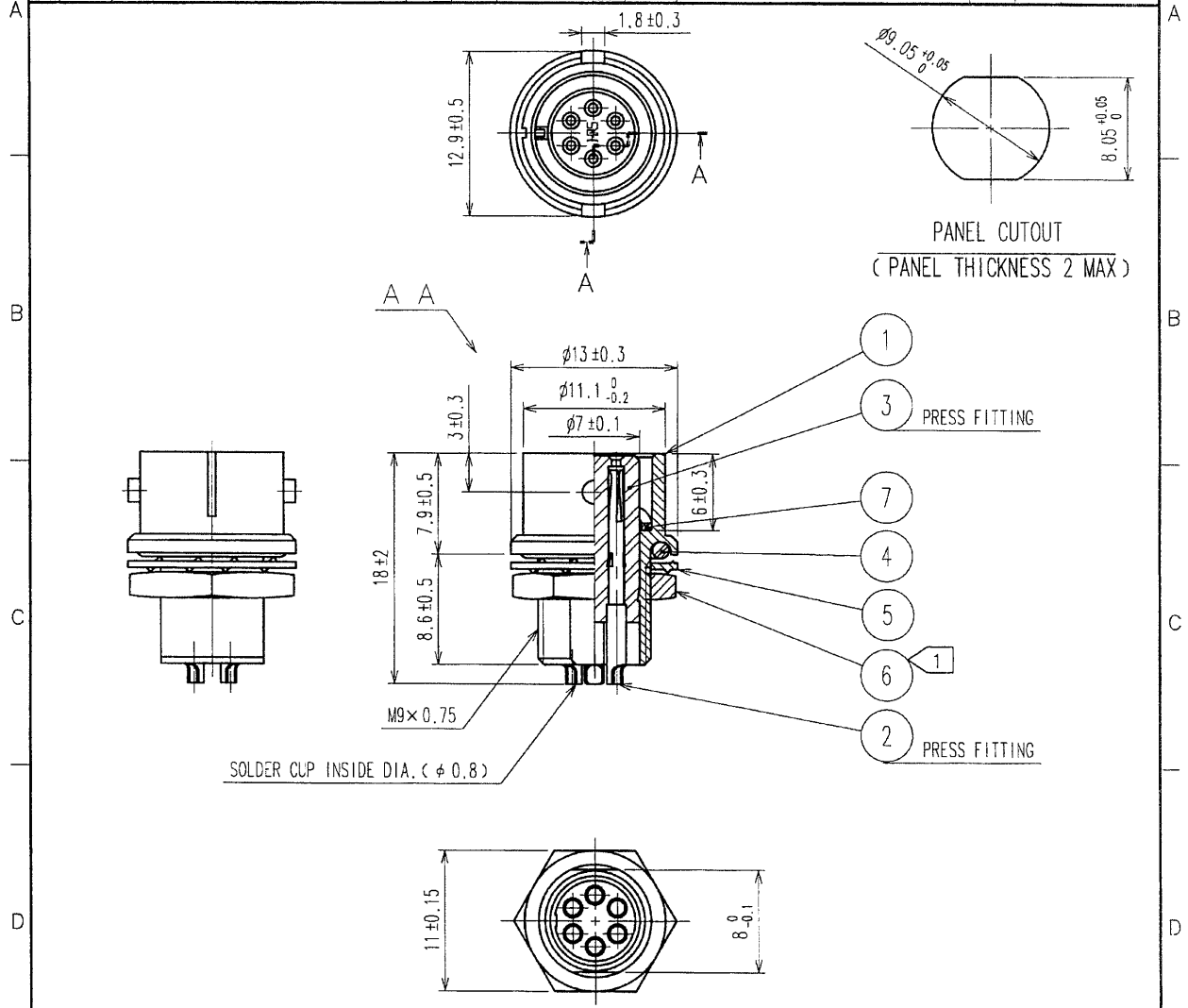
<b>HRS</b> HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.	KMC9BRD-6S (71)
		CODE NO. (OLD)	CL

CODE NO. (OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-007871-71	CL110-0017-9-71	1/1

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NOTE ① THE RECOMMENDED CRAMP TORQUE, REF.NO. ⑥: 1.5-2.0 N·m  
 LOCTITE 242, LOCTITE OR EQUIVALENT IS RECOMMENDED TO  
 PREVENT REF.NO. ⑥ FROM LOOSEING.

3	POLYACETAL	(BLACK)	2	BERYLLIUM COPPER	NICKEL PLATING
2	PHOSPHOR BRONZE	GOLD PLATING 2μ m min. NICKEL UNDER PLATING 3μ m min.	2	STEEL	NICKEL PLATING
1	ZINC ALLOY	MATTE FINISH NICKEL PLATED	5	STEEL	NICKEL PLATING
			4	CR	(BLACK)
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS

CODE NO. (OLD)  
CL

DRAWN

DESIGNED

CHECKED

APPROVED

RELEASED

**FOR REFERENCE ONLY**

**Subject to change without notice**

*J. Kunita* *D. Matsume* *E. Kunita* *M. Sato*  
 06-01-19 06-01-19 06-01-19 06-01-19



SCALE 2 : 1	DRAWING NO.	EDC4-007871-71	PART NO.	KMC9BRD-6S(71)
	UNITS mm	<b>HRS</b> HIROSE ELECTRIC CO., LTD.	CODE NO.	CL110-0017-9-71

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