

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40°C TO +85°C		STORAGE TEMPERATURE RANGE	-30°C TO +70°C
	POWER	2 W		CHARACTERISTIC IMPEDANCE	50 Ω
	FREQUENCY RANGE	DC TO 11000 MHz		OPERATING HUMIDITY RANGE	TO 90% (NO CONDENSATION)
	PECULIARITY	—		APPLICABLE CABLE	—
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X X
MARKING		CONFIRMED VISUALLY.			
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).	CENTER CONTACT		100 mΩ MAX.	X X
		OUTER CONTACT		100 mΩ MAX.	
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.			X —
VOLTAGE PROOF	100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.			X X
V.S.W.R.	※1	FREQUENCY DC TO 3.0 GHz	1.2 MAX		X —
		FREQUENCY 3.0 TO 6.0 GHz	1.3 MAX		
		FREQUENCY 6.0 TO 11.0 GHz	1.4 MAX		
INSERTION LOSS	※1	FREQUENCY DC TO 3.0 GHz	0.10dB MAX.		X —
		FREQUENCY 3.0 TO 6.0 GHz	0.20dB MAX.		
		FREQUENCY 6.0 TO 11.0 GHz	0.30dB MAX.		
ISOLATION	※2	FREQUENCY DC TO 3.0 GHz	25 dB MIN.		X —
		FREQUENCY 3.0 TO 6.0 GHz	20 dB MIN.		
		FREQUENCY 6.0 TO 11.0 GHz	12 dB MIN.		
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX.		X —
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm OR 98 m/s ² 1 octave/min , 10 CYCLES FOR EACH 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX.		X —
SHOCK	ACCELERATION : 490 m/s ² DURATION : 11 ms , HALF SINE WAVE 3 BOTH AXIAL DIRECTIONS, 3 TIMES EACH		3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
2	9	DIS-J-000972	TS. NAKAGAWA	TY. OZAKI	09.05.09
REMARK			APPROVED	K.J. KAWAMURA	08.11.08
※1. This spec is only for receptacle . Refer to the spec sheet of each plug regarding the mated condition.			CHECKED	TY. OZAKI	08.11.08
2. This spec is adapted for any plug.			DESIGNED	TS. NAKAGAWA	08.11.07
Unless otherwise specified, refer to IEC-60512.			DRAWN	TS. NAKAGAWA	08.11.07
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-180771-01
SPECIFICATION SHEET			PART NO.	MS-180 (20)	
HIROSE ELECTRIC CO., LTD.			CODE NO.	CL358-0265-7-20	1/2

SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 5-35 → +85 → 5-35 °C TIME 30 → 2-3 → 30 → 2-3 min. UNDER 100 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO.		1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
DRY HEAT		EXPOSED AT +85°C, 96h.		1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
COLD		EXPOSED AT -55°C, 96h.		1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
DAMP HEAT (STEADY STATE)		EXPOSED AT +40°C, 90~95%, 96h. THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERATURE AND HUMIDITY.		1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
RESISTANCE TO SOLDER HEAT		SOLDER TEMPERATURE 260°C FOR IMMERSION DURATION 10 sec .		1) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test							
DRAWING NO.				ELC4-180771-01			
		SPECIFICATION SHEET		PART NO.		MS-180 (20)	
		HIROSE ELECTRIC CO., LTD.		CODE NO		CL358-0265-7-20  2/2	