


Applicable standard					
Rating	Operating temperature range	-55 °C to +85 °C (90 %RH Max.)	Storage temperature range	-40 °C to +85 °C (90 %RH Max.)	
	Power	-- W	Characteristic impedance	50 Ω(0 to 6 GHz)	
	Peculiarity	----	Applicable cable	RG-178B/U (Fujikura Ltd.)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
General examination	Visually and by measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.			-	-
ELECTRICAL CHARACTERISTICS					
Contact resistance	100 mA Max.(DC or 1000 Hz)		Center contact 10 mΩ Max.	X	X
			Outer contact 5 mΩ Max.	X	X
Insulation resistance	500 V DC.		500 MΩ Min.	X	X
Withstanding voltage	500 V AC for 1 min. current leakage 2 mA Max.		No flashover or breakdown.	X	X
Voltage standing wave ratio	Frequency 0 to 6 GHz.		VSWR 1.2 Max.	X	-
Insertion loss	Frequency - to - GHz.		--- dB Max.	-	-
MECHANICAL CHARACTERISTICS					
Contact insertion and extraction forces	φ - by steel gauge.		Insertion force -- N Max.	-	-
			Extraction force -- N Min.	-	-
Insertion and extraction forces	Measured by applicable connector.		Insertion force -- N Max.	-	-
			Extraction force 6 N Min.	X	X
Mechanical operation	500 times insertion and extractions.		1)Contact resistance: Center contact 20 mΩ Max. Outer contact 10 mΩ Max. 2)No damage, crack and looseness of parts.	X	-
Vibration	Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s ² at 12 cycles for 3 directions.(Total 36 cycles)		1)No electrical discontinuity of 1 μs. 2)No damage, crack and looseness of parts.	X	-
Shock	735 m/s ² directions of pulse 6 ms at 3 times for 3 directions.			X	-
Cable clamp strength (Against cable pull)	Using a pulling tester, pull the cable axially at a rate of 30 mm/min. and record the strength at which the cable or connector breaks.		49 N Min.	X	-
ENVIRONMENTAL CHARACTERISTICS					
Damp heat	Exposed at +40 °C, 95 % total 96 h.		1)Insulation resistance: 10 MΩ Min. (at high humidity) 2) Insulation resistance: 500 MΩ Min. (at dry) 3)No damage, crack and looseness of parts.	X	-
Rapid change of temperature	Temperature -55 → 20 ~ 35 → +85 → 20 ~ 35°C Time 30 → 3 → 30 → 3 min. Under 5 cycles.		No damage, crack and looseness of parts.	X	-
Corrosion salt mist	Exposed in 5 % salt water spray for 48 h.		VSWR 1.2 Max.	X	-
	Count	Description of revisions	Designed	Checked	Date
▲					
Remark			Approved	TO.KATAYAMA	17.09.20
RoHS COMPLIANT			Checked	TO.KATAYAMA	17.09.20
			Designed	NK.OOSAWA	17.09.20
Unless otherwise specified, refer to IEC 60512.			Drawn	NK.OOSAWA	17.09.20
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.	ELC-355878-00-00	
	SPECIFICATION SHEET		Part No.	MMCX(AR)-P-178B/U	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL339-0038-7-00	▲ 1/1