




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	DFS111-UL1979 (Junkosha Inc.) CO-6F・FH-SB (Hitachi Cable, 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.	X	-	
			2)No damage, crack and looseness of parts.			
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.	X	-	
			2)No damage, crack and looseness of parts.			
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.		30 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 RoHS COMPLIANT			Approved	TO.KATAYAMA	17.09.08	
			Checked	TO.KATAYAMA	17.09.08	
			Designed	NK.OOSAWA	17.09.08	
			Drawn	NK.OOSAWA	17.09.08	
Unless otherwise specified, refer to IEC 60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.	ELC-334203-00-00		
	SPECIFICATION SHEET		Part No.	MMCX(AR)-LP-FHSB		
	HIROSE ELECTRIC CO., LTD.		Code No.	CL339-0035-9-00	 1/1	