

Comparison chart

Model: ALV2(Slim)
 FCC ID: VBU-ALV2S

DATE : 2011/2/7

Miwa Lock Co., Ltd has modified the Antenna PCB in above device as follows. Comparison measurements were carried out on both the original and modified PCBs and it has been verified that this modification degrades the performance characteristics of the device reported to the Commission at the time of its initial certification. The above comparison consisted of the measurement of radiated emission of fundamental signals from the original and modified PCBs using the same method as in the original test(test report No. EMC10122). The result of these measurements indicated that the modification degraded the equipment's performance characteristics. The modified equipment also meets the requirements in 47CFR section 15.225 and in other related sections.

Part		Original	New (with ECO)	Remarks
Antenna PCB	PCB Pattern	M2AVHa-P11-100	←	No change
	Capacitance Range of C109	10pF	12pF	Refer to Page 2 of Doc. ANT_PCB_CHANGE.pdf
	Capacitance Range of C111	10pF	12pF	↑
	Capacitance Tolerance of C105	± 5%	± 2%	↑
	Capacitance Tolerance of C108	± 5%	± 2%	↑
	Capacitance Tolerance of C109	± 5%	± 2%	↑
	Capacitance Tolerance of C110	± 5%	± 2%	↑
	Capacitance Tolerance of C111	± 5%	± 2%	↑
	Other components	Original	←	No change
Other H/W		Original	←	No change
S/W		Original	←	No change

Measurement results	Original	New (with ECO)	Remarks
Radiated Emission (Fundamental)	Worst margin		Refer to a) Test Report No. EMC10122 and b) Additional test data IPS-EMC-20110205a ※ a) & b) issued by IPS Corporation
	52.2dB	more than 52.2dB	
	Measured Emission Level by using "Near Field Magnetic sensor".		
	88.4dBm @13.560MHz	87.6dBm @13.560MHz	