参考資料

COSEL

PBA50F EMI/EMS Test result

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Design engineering dep.

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No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input(AC100V,120V,230V) (2) Rated load (3) Ambient temp. 25±10℃	(1)Meets the undermentioned standard. FCC Part15 classB , VCCI classB CISPR22 classB , EN55022-B, EN55011-B	ok
2	Radiated emission	(1) Rated input(AC100V,120V,230V) (2) Rated load (3) Ambient temp. 25±10℃	(1)Meets the undermentioned standard. FCC Part15 classB , VCCI classB CISPR22 classB , EN55022-B, EN55011-B	ok
3	Harmonic current (EN61000-3-2)	(1) Rated input (AC100V,230V) (2) Load 0 - Rated load (3) Ambient temp. 25±10℃	(1)Meets the undermentioned standard. EN61000-3-2 classA	ok
4	Static electricity immunity test (EN61000-4-2)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. 25±10℃ (4) Contact discharge voltage 8[kV] (Level 4)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	ok
5	Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. 25±10℃ (4)Testing field strength 10[V/m] (Level 3)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	ok
6	Electrical fast transient/ burst immunity test (EN61000-4-4)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. 25±10℃ (4) Test peak voltage 4[kV] (Level 4)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	ok
7	Surge immunity test (EN61000-4-5)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. 25±10℃ (4) Test voltage Line to line 2[kV] (Level 3) Line to earth 4[kV] (Level 4)	(1)The power supply is not stop (2)Circuit does not malfunction. (3)No abnormality of the insulation destruction etc. (4)Parts are no damaged.	ok
8	Immunity to conducted disturbances, induced by radio-frequency fields (EN61000-4-6)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. 25±10℃ (4) Voltage level (e.m.f.) 10[V] (Level 3)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	ok
9	Power frequency magnetic field immunity test (EN61000-4-8)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. 25±10℃ (4) Magnetic field 30A/m (Level 4)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	ok
10	Voltage dips, short interruptions and voltage variations immunity test (EN61000-4-11)	(1) Rated input (AC230V) ・30% reduction at 10mS min. ・60% reduction at 100mS min ・95% reduction at 5S min. ・±10% variation at 15 minutes (2) Rated load (3) Ambient temp. 25±10℃	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	ok

参考資料

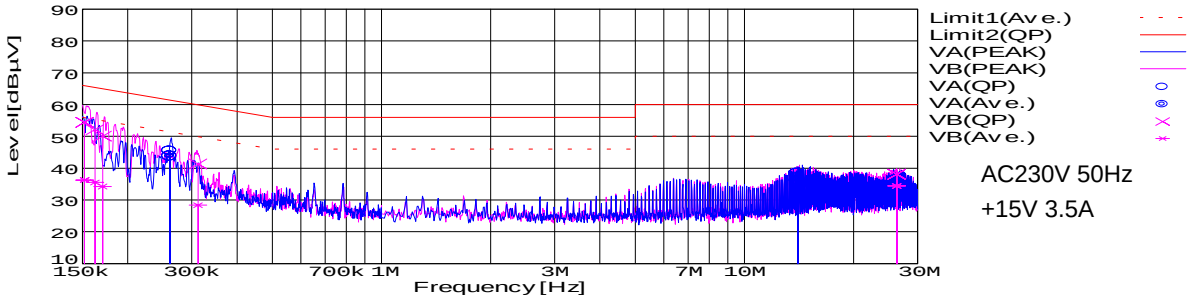
COSEL

DATA SHEET		Date	07-Feb-04
Model	PBA50F-15	Temp.	25 degreeC
Test	EMI Line conduction & Radiated emission	Humid.	44 %RH
		Tested by	A.Yoshiyama

LINE CONDUCTION

Model Name : PBA50F-15
Model No. :
Serial No. :
Points : 7
Detector : PEAK/QP/Ave.
Line Mode : VA/VB
Power Supply : AC230V 50Hz
Limit1: [EN 55022] Class B(Ave.)
Limit2: [EN 55022] Class B(QP)

Temp. : 25 degreeC
Humi. : 44 %
Date : 2004/2/7 14:51
Test Equip. : R3132,ESPC
Load Line : 150 mm
Comment :

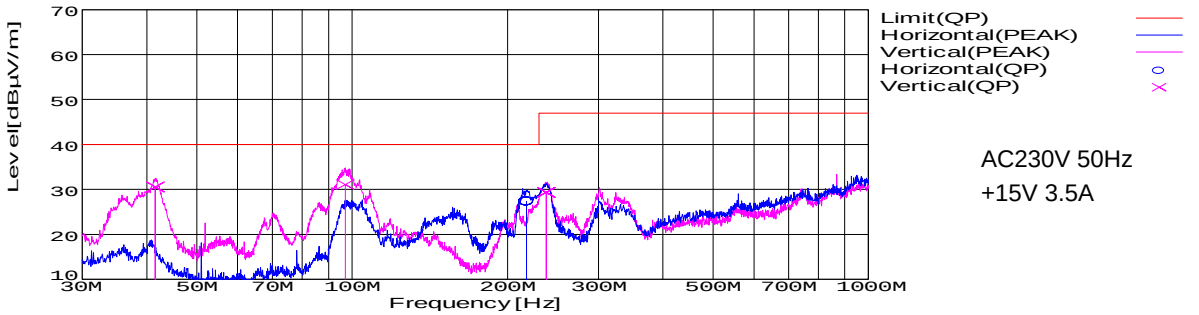


Frequency [MHz]	Meter Reading (Ave.)[dBuV]	Meter Reading (QP)[dBuV]	Factor [dB]	Level(Ave.) [dBuV]	Level(QP) [dBuV]	Line	Limit(Ave.) [dBuV]	Limit(QP) [dBuV]	Margin(Ave.) [dB]	Margin(QP) [dB]
0.2612	35.4	33.7	10	45.4	43.7	VA	61.4	51.4	16	7.7
0.152	44.4	26.3	10	54.4	36.3	VB	65.9	55.9	11.5	19.6

RADIATED EMISSION

Model Name : PBA50F-15
Model No. :
Serial No. :
Points : 4
Detector : PEAK/QP
Polarization : Hori. & Vert.
Power Supply : AC230V 50Hz
Limit: [EN 55022] Class B<3m>

Temp. : 25 degreeC
Humi. : 44 %
Date : 2004/2/7 14:00
Test Equip. : R3132,ESPC
Load Line : 150 mm
Comment :



Frequency [MHz]	MeterReading (QP)[dBuV]	Ant. Type	Antenna Factor[dB/m]	Cable & Preamp[dB]	Level(QP) [dBuV/m]	Angle [°]	Height[cm]	Polar.	Limit [dBuV/m]	Margin [dB]
217.627	42.2	BL	8.7	-23.6	27.3	36	154	Hori.	40	12.7
41.556	44.3	BL	11.7	-25.5	30.5	160	101	Vert.	40	9.5
96.987	47.3	BL	8.9	-25.1	31.1	336	120	Vert.	40	8.9
237.597	46.1	BL	10.5	-27.3	29.3	25	132	Vert.	47	17.7