

DATA SHEET				Date	09-Jun-06
Model	SFCS30243R3			Temp.	25degreeC
Test	EMI Line conduction & Radiated emission			Humid.	45 %RH
				Tested by	S.Shiina

LINE CONDUCTION

Model Name : SFCS30243R3 Temp. : 25degreeC

Model No. : Humi. : 45%

Serial No. : Date : 2006/6/9 16:10

Points : 3 Test Equip. : R3132,ESPC

Detector : PEAK/QP/Ave. Load Line : 100mm

Line Mode : VA/VB Comment : Vin = 24V , Iout = 9A

Power Supply : DC 24V

Limit1: [CISPR Pub11] Class A Gr.1(QP)

Limit2: [CISPR Pub11] Class A Gr.1(Ave.)

Testing circuitry 2

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]
29.9594	31.8	33	10.5	42.3	43.5	VA	60	73	17.7	29.5
0.5657	38.2	37.8	9.9	48.1	47.7	VB	60	73	11.9	25.3
20.9168	36	35.8	10.3	46.3	46.1	VB	60	73	13.7	26.9

RADIATED EMISSION

Model Name : SFCS30243R3 Temp. : 25degreeC

Model No. : Humi. : 45%

Serial No. : Date : 2006/6/9 16:22

Points : 5 Test Equip. : R3132,ESPC

Detector : PEAK/QP Load Line : 100mm

Polarization : Hori. & Vert. Comment : Vin = 24V , Iout = 9A

Power Supply : DC 24V

Limit: [CISPR 11] Class A Group 1<3m>

Testing circuitry 2

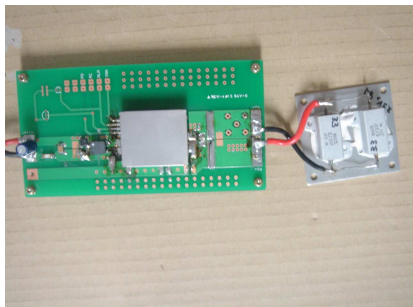
Frequency [MHz]	Meter Reading (QP) [dBuV]	Ant. Type	Antenna Factor [dB/m]	Cable & Preamp [dB]	Level(QP) [dBuV/m]	Angle [°]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
30.021	56	BL	18.2	-32.3	41.9	22	100	Vert.	50	8.1
181.191	49.9	BL	8.4	-31.3	27	312	109	Vert.	50	23

DATA SHEET		Date	09-Jun-06
Model	SFCS30243R3	Temp.	25degreeC
Test	EMI Line conduction & Radiated emission	Humid.	45 %RH
		Tested by	S.Shiina

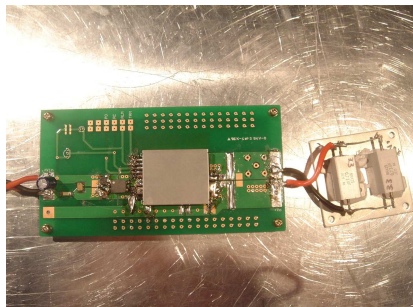
1.Conditions

(1)Photographs of Test Set-Up

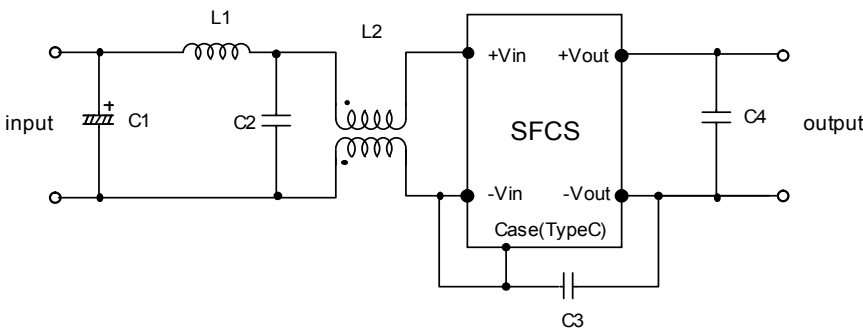
LINE CONDUCTION



Radiated emission



(2)Testing circuitry



- C1 : 68µF 63V Electric capacitor

C2 : 1µF 100V Ceramic capacitor

C3 : 1000pF 630V Ceramic capacitor

C4 : 22µF 16V Ceramic capacitor
- L1 : 1µH 2.4A Inductor

L2 : ZJYS51R5-2P : TDK

Fig. Testing circuitry2

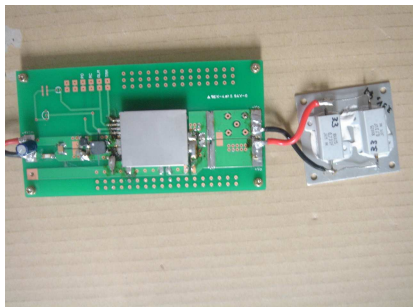
DATA SHEET							Date	09-Jun-06																																														
Model	SFCS30243R3						Temp.	25degreeC																																														
Test	EMI Line conduction & Radiated emission						Humid.	45 %RH																																														
							Tested by	S.Shiina																																														
LINE CONDUCTION																																																						
Model Name		SFCS30243R3			Temp.		25degreeC																																															
Model No.					Humi.		45%																																															
Serial No.					Date		2006/6/9 16:03																																															
Points		3			Test Equip.		R3132,ESPC																																															
Detector		PEAK/QP/Ave.			Load Line		100mm																																															
Line Mode		VA			Comment		Vin = 24V , Iout = 9A																																															
Power Supply		DC 24V																																																				
Limit1:		[CISPR Pub11] Class A Gr.1(QP)																																																				
Limit2:		[CISPR Pub11] Class A Gr.1(Ave.)																																																				
							Limit1(QP) Limit2(Ave.) VA(PEAK) VB(PEAK) VA(QP) VA(Ave.)																																															
							Testing circuitry 1																																															
<table><tr><th>Frequency [MHz]</th><th>Meter Reading (Ave.) [dBuV]</th><th>Meter Reading (QP) [dBuV]</th><th>Factor [dB]</th><th>Level(Ave.) [dBuV]</th><th>Level(QP) [dBuV]</th><th>Line</th><th>Limit(Ave.) [dBuV]</th><th>Limit(QP) [dBuV]</th><th>Margin(Ave.) [dB]</th><th>Margin(QP) [dB]</th></tr><tr><td>0.5654</td><td>39.2</td><td>38.7</td><td>9.9</td><td>49.1</td><td>48.6</td><td>VA</td><td>60</td><td>73</td><td>10.9</td><td>24.4</td></tr><tr><td>15.8212</td><td>34.3</td><td>33.7</td><td>10.2</td><td>44.5</td><td>43.9</td><td>VA</td><td>60</td><td>73</td><td>15.5</td><td>29.1</td></tr><tr><td>20.9059</td><td>38.1</td><td>37.7</td><td>10.3</td><td>48.4</td><td>48</td><td>VA</td><td>60</td><td>73</td><td>11.6</td><td>25</td></tr></table>											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]	0.5654	39.2	38.7	9.9	49.1	48.6	VA	60	73	10.9	24.4	15.8212	34.3	33.7	10.2	44.5	43.9	VA	60	73	15.5	29.1	20.9059	38.1	37.7	10.3	48.4	48	VA	60	73	11.6	25
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]																																												
0.5654	39.2	38.7	9.9	49.1	48.6	VA	60	73	10.9	24.4																																												
15.8212	34.3	33.7	10.2	44.5	43.9	VA	60	73	15.5	29.1																																												
20.9059	38.1	37.7	10.3	48.4	48	VA	60	73	11.6	25																																												
RADIATED EMISSION																																																						
Model Name		SFCS30243R3			Temp.		25degreeC																																															
Model No.					Humi.		45%																																															
Serial No.					Date		2006/6/9 16:54																																															
Points		4			Test Equip.		R3132,ESPC																																															
Detector		PEAK/QP			Load Line		100mm																																															
Polarization		Hori. & Vert.			Comment		Vin = 24V , Iout = 9A																																															
Power Supply		DC 24V																																																				
Limit:		[CISPR 11] Class A Group 1<3m>																																																				
							Limit(QP) Horizontal(PEAK) Vertical(PEAK) Horizontal(QP) Vertical(QP)																																															
							Testing circuitry 1																																															
<table><tr><th>Frequency [MHz]</th><th>MeterReading (QP) [dBuV]</th><th>Ant. Type</th><th>Antenna Factor [dB/m]</th><th>Cable & Preamp [dB]</th><th>Level(QP) [dBuV/m]</th><th>Angle [°]</th><th>Height [cm]</th><th>Polar.</th><th>Limit [dBuV/m]</th><th>Margin [dB]</th></tr><tr><td>30.009</td><td>59.9</td><td>BL</td><td>18.2</td><td>-32.3</td><td>45.8</td><td>1</td><td>100</td><td>Vert.</td><td>50</td><td>4.2</td></tr><tr><td>101.897</td><td>44.2</td><td>BL</td><td>9.9</td><td>-31.7</td><td>22.4</td><td>208</td><td>127</td><td>Vert.</td><td>50</td><td>27.6</td></tr><tr><td>271.727</td><td>52.1</td><td>BL</td><td>12.5</td><td>-31</td><td>33.6</td><td>118</td><td>114</td><td>Vert.</td><td>57</td><td>23.4</td></tr></table>											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]	30.009	59.9	BL	18.2	-32.3	45.8	1	100	Vert.	50	4.2	101.897	44.2	BL	9.9	-31.7	22.4	208	127	Vert.	50	27.6	271.727	52.1	BL	12.5	-31	33.6	118	114	Vert.	57	23.4
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]																																												
30.009	59.9	BL	18.2	-32.3	45.8	1	100	Vert.	50	4.2																																												
101.897	44.2	BL	9.9	-31.7	22.4	208	127	Vert.	50	27.6																																												
271.727	52.1	BL	12.5	-31	33.6	118	114	Vert.	57	23.4																																												

DATA SHEET		Date	09-Jun-06
Model	SFCS30243R3	Temp.	25degreeC
Test	EMI Line conduction & Radiated emission	Humid.	45 %RH
		Tested by	S.Shiina

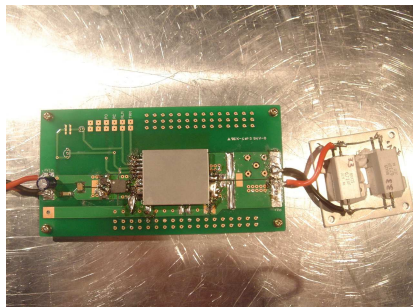
1.Conditions

(1)Photographs of Test Set-Up

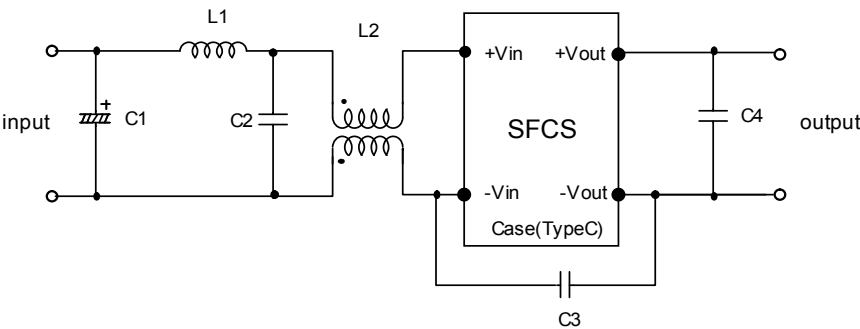
LINE CONDUCTION



Radiated emission



(2)Testing circuitry



- C1 : 68µF 63V Electric capacitor

C2 : 1µF 100V Ceramic capacitor

C3 : 1000pF 630V Ceramic capacitor

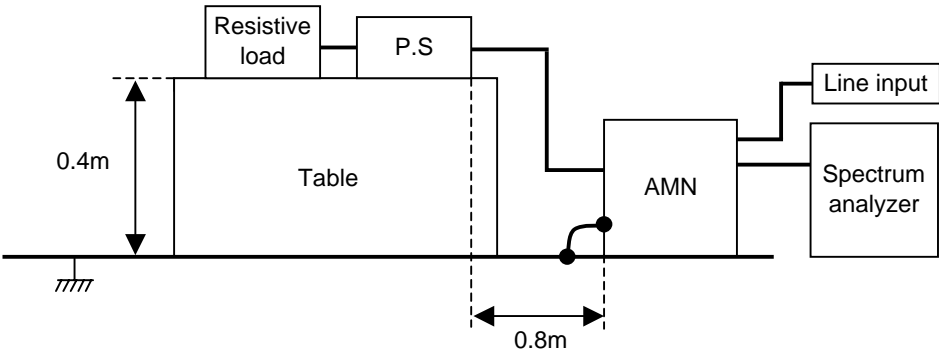
C4 : 22µF 16V Ceramic capacitor
- L1 : 1µH 2.4A Inductor

L2 : ZJYS51R5-2P : TDK

Fig. Testing circuitry1

DATA SHEET		Date	09-Jun-06
Model	Circuit used for measurement	Temp.	25 degreeC
Test	EMI Line conduction & Radiated emission	Humid.	45 %RH
		Tested by	S.Shiina

1. Line conduction



2. Radiated emission

