

| DATA SHEET | | | | | | | Date | 11-Oct-07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------------------|---------------------------------|---------------------|--------------------|-----------|--|------------------|-------------------|-----------------|-----------------|-----------------------------|---------------------------|-----------------------|---------------------|--------------------|-----------|--------------------|------------------|-------------------|-----------------|--------|------|------|-----|-------|------|-----|-----|-------|------|------|---------|------|------|------|-------|------|----|-----|-------|------|------|---------|------|----|------|-------|------|-----|-----|-------|------|------|
| Model | SFS15481R8 | | | | | | Temp. | 25 degreeC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test | EMI Line conduction & Radiated emission | | | | | | Humid. | 45 %RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Tested by | Y.Miyawaki | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINE CONDUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model Name : SFS15481R8 | | | Temp. : 25degreeC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model No. : | | | Humi. : 45% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial No. : | | | Date : 2007/10/11 14:15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Points : 3 | | | Test Equip. : R3132,ESPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detector : PEAK/QP/Ave. | | | Load Line : 100mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Mode : VA/VB | | | Comment : Vo = 1.8V , Io = 4.5A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supply : DC 48V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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.) VB(QP) VB(Ave.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>0.1821</td><td>24.4</td><td>29.6</td><td>9.8</td><td>34.2</td><td>39.4</td><td>VA</td><td>66</td><td>79</td><td>31.8</td><td>39.6</td></tr><tr><td>17.045</td><td>28.3</td><td>28.6</td><td>10.2</td><td>38.5</td><td>38.8</td><td>VA</td><td>60</td><td>73</td><td>21.5</td><td>34.2</td></tr><tr><td>1.3122</td><td>30.3</td><td>30</td><td>9.9</td><td>40.2</td><td>39.9</td><td>VB</td><td>60</td><td>73</td><td>19.8</td><td>33.1</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] | 0.1821 | 24.4 | 29.6 | 9.8 | 34.2 | 39.4 | VA | 66 | 79 | 31.8 | 39.6 | 17.045 | 28.3 | 28.6 | 10.2 | 38.5 | 38.8 | VA | 60 | 73 | 21.5 | 34.2 | 1.3122 | 30.3 | 30 | 9.9 | 40.2 | 39.9 | VB | 60 | 73 | 19.8 | 33.1 |
| 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] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1821 | 24.4 | 29.6 | 9.8 | 34.2 | 39.4 | VA | 66 | 79 | 31.8 | 39.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17.045 | 28.3 | 28.6 | 10.2 | 38.5 | 38.8 | VA | 60 | 73 | 21.5 | 34.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3122 | 30.3 | 30 | 9.9 | 40.2 | 39.9 | VB | 60 | 73 | 19.8 | 33.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIATED EMISSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model Name : SFS15481R8 | | | Temp. : 25degreeC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model No. : | | | Humi. : 45% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial No. : | | | Date : 2007/10/11 14:27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Points : 3 | | | Test Equip. : R3132,ESPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detector : PEAK/QP | | | Load Line : 100mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polarization : Vertical | | | Comment : Vo = 1.8V , Io = 4.5A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supply : DC 48V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit: [CISPR 11] Class A Group 1<3m> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Limit(QP) Horizontal(PEAK) Vertical(PEAK) Vertical(QP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>69.569</td><td>58.8</td><td>BL</td><td>5.3</td><td>-31.9</td><td>32.2</td><td>304</td><td>107</td><td>Vert.</td><td>50</td><td>17.8</td></tr><tr><td>160.162</td><td>54.2</td><td>BL</td><td>9.9</td><td>-31.5</td><td>32.6</td><td>15</td><td>156</td><td>Vert.</td><td>50</td><td>17.4</td></tr><tr><td>252.737</td><td>45.2</td><td>BL</td><td>12.8</td><td>-31.1</td><td>26.9</td><td>236</td><td>111</td><td>Vert.</td><td>57</td><td>30.1</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] | 69.569 | 58.8 | BL | 5.3 | -31.9 | 32.2 | 304 | 107 | Vert. | 50 | 17.8 | 160.162 | 54.2 | BL | 9.9 | -31.5 | 32.6 | 15 | 156 | Vert. | 50 | 17.4 | 252.737 | 45.2 | BL | 12.8 | -31.1 | 26.9 | 236 | 111 | Vert. | 57 | 30.1 |
| 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] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69.569 | 58.8 | BL | 5.3 | -31.9 | 32.2 | 304 | 107 | Vert. | 50 | 17.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160.162 | 54.2 | BL | 9.9 | -31.5 | 32.6 | 15 | 156 | Vert. | 50 | 17.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 252.737 | 45.2 | BL | 12.8 | -31.1 | 26.9 | 236 | 111 | Vert. | 57 | 30.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| DATA SHEET | | Date | 11-Oct-07 |
|------------|--|-----------|------------|
| Model | SFS15481R8 | Temp. | 25 degreeC |
| Test | EMI Line conduction & Radiated emission | Humid. | 45 %RH |
| | | Tested by | Y.Miyawaki |

1.Conditions

(1)Photograph of Test Set-Up

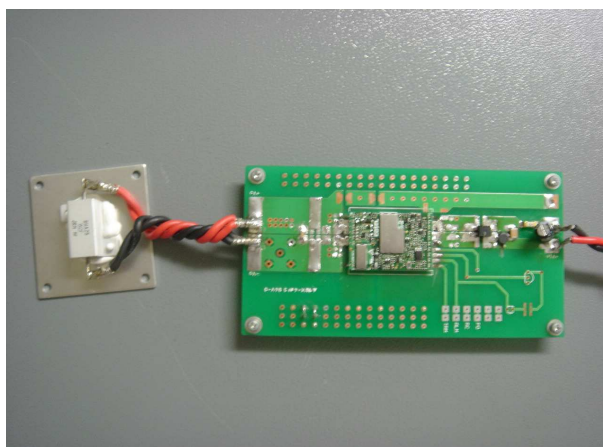
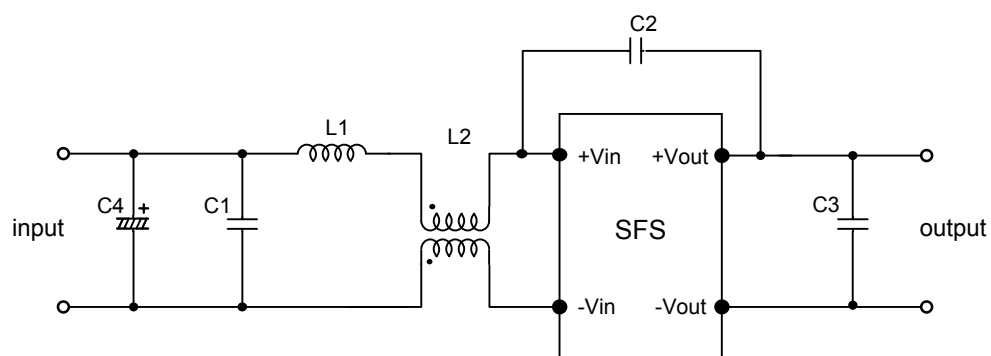


Fig1. Photograph of Test Set-Up

(2)Testing circuitry



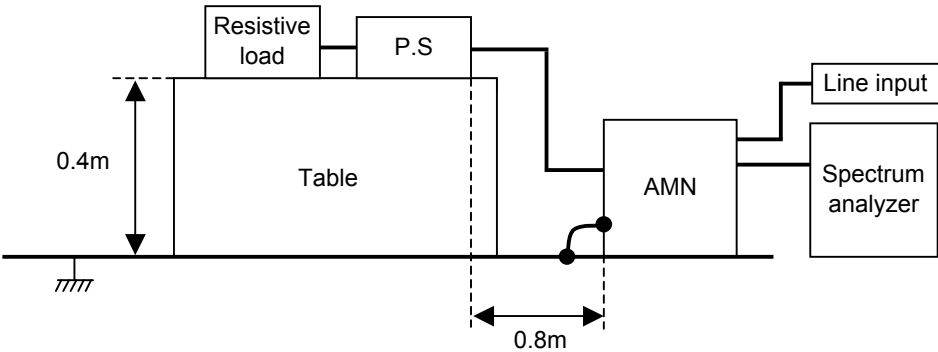
C1: 1 μ F 100V Ceramic capacitor
 C2: 2200pF 630V Ceramic capacitor
 C3: 22 μ F 16V Ceramic capacitor
 C4: 10 μ F 100V Electric capacitor

L1: 1 μ H 2.4A Inductor
 L2: ZJYS51R5-2PT : TDK

Fig2. Testing circuitry

| DATA SHEET | | Date | 11-Oct-07 |
|------------|--|-----------|------------|
| Model | Circuit used for measurement | Temp. | 25 degreeC |
| Test | EMI Line conduction & Radiated emission | Humid. | 45 %RH |
| | | Tested by | Y.Miyawaki |

1. Line conduction



2. Radiated emission

