

| DATA SHEET | | | | | | | Date | 11-Jan-07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------------|--------------------------|---------------------|--------------------|-----------|--|------------------|-------------------|-----------------|-----------------|-----------------------------|---------------------------|-----------------------|---------------------|--------------------|-----------|--------------------|------------------|-------------------|-----------------|---------|------|------|------|-------|------|-----|-----|-------|------|------|--------|------|------|-----|-------|------|----|-----|-------|------|------|--------|------|----|-----|-------|------|----|-----|-------|----|-----|---------|------|----|------|-------|----|-----|-----|-------|----|---|
| Model | CQS48050-28 | | | | | | Temp. | 25degC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test | EMI Line conduction & Radiated emission | | | | | | Humid. | 45 %RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Tested by | T.Mizuhara | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINE CONDUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model Name : CQS48050-28 | | | Temp. : 25degC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model No. : | | | Humi. : 45% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial No. : | | | Date : 2007/1/11 19:39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Points : 2 | | | Test Equip. : R3132,ESPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detector : PEAK/QP/Ave. | | | Load Line : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Mode : VA/VB | | | Comment : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supply : DC 48V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit1: [EN 55022] Class A(QP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit2: [EN 55022] Class A(Ave.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Limit1(QP) Limit2(Ave.) VA(PEAK) VB(PEAK) VA(QP) VA(Ave.) VB(QP) VB(Ave.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Vin:DC48V Vo:5V Io:28A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>26.7021</td><td>27.2</td><td>30.9</td><td>10.4</td><td>37.6</td><td>41.3</td><td>VA</td><td>60</td><td>73</td><td>22.4</td><td>31.7</td></tr><tr><td>0.4237</td><td>44.7</td><td>44.3</td><td>9.9</td><td>54.6</td><td>54.2</td><td>VB</td><td>66</td><td>79</td><td>11.4</td><td>24.8</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] | 26.7021 | 27.2 | 30.9 | 10.4 | 37.6 | 41.3 | VA | 60 | 73 | 22.4 | 31.7 | 0.4237 | 44.7 | 44.3 | 9.9 | 54.6 | 54.2 | VB | 66 | 79 | 11.4 | 24.8 | | | | | | | | | | | | | | | | | | | | | | |
| 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] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26.7021 | 27.2 | 30.9 | 10.4 | 37.6 | 41.3 | VA | 60 | 73 | 22.4 | 31.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4237 | 44.7 | 44.3 | 9.9 | 54.6 | 54.2 | VB | 66 | 79 | 11.4 | 24.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIATED EMISSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model Name : CQS48050-28 | | | Temp. : 25deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model No. : | | | Humi. : 45% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial No. : | | | Date : 2007/1/11 17:09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Points : 4 | | | Test Equip. : R3132,ESPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detector : PEAK/QP | | | Load Line : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polarization : Hori. & Vert. | | | Comment : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supply : DC 48V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit: [EN 55022] Class A<3m> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Limit(QP) Horizontal(PEAK) Vertical(PEAK) Horizontal(QP) Vertical(QP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Vin:DC48V Vo:5V Io:28A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>109.791</td><td>58.9</td><td>BL</td><td>10.7</td><td>-28.8</td><td>40.8</td><td>180</td><td>159</td><td>Hori.</td><td>50</td><td>9.2</td></tr><tr><td>58.486</td><td>61.2</td><td>BL</td><td>4.9</td><td>-25.4</td><td>40.7</td><td>94</td><td>106</td><td>Vert.</td><td>50</td><td>9.3</td></tr><tr><td>60.192</td><td>62.4</td><td>BL</td><td>4.7</td><td>-25.2</td><td>41.9</td><td>88</td><td>117</td><td>Vert.</td><td>50</td><td>8.1</td></tr><tr><td>114.855</td><td>60.8</td><td>BL</td><td>10.8</td><td>-30.6</td><td>41</td><td>266</td><td>157</td><td>Vert.</td><td>50</td><td>9</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] | 109.791 | 58.9 | BL | 10.7 | -28.8 | 40.8 | 180 | 159 | Hori. | 50 | 9.2 | 58.486 | 61.2 | BL | 4.9 | -25.4 | 40.7 | 94 | 106 | Vert. | 50 | 9.3 | 60.192 | 62.4 | BL | 4.7 | -25.2 | 41.9 | 88 | 117 | Vert. | 50 | 8.1 | 114.855 | 60.8 | BL | 10.8 | -30.6 | 41 | 266 | 157 | Vert. | 50 | 9 |
| 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] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 109.791 | 58.9 | BL | 10.7 | -28.8 | 40.8 | 180 | 159 | Hori. | 50 | 9.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58.486 | 61.2 | BL | 4.9 | -25.4 | 40.7 | 94 | 106 | Vert. | 50 | 9.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60.192 | 62.4 | BL | 4.7 | -25.2 | 41.9 | 88 | 117 | Vert. | 50 | 8.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 114.855 | 60.8 | BL | 10.8 | -30.6 | 41 | 266 | 157 | Vert. | 50 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

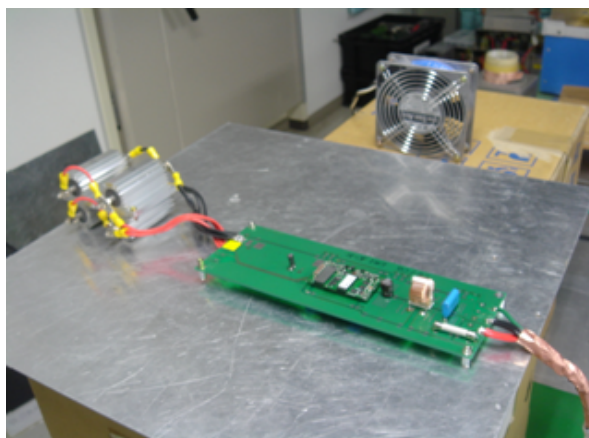


TEST :EMI

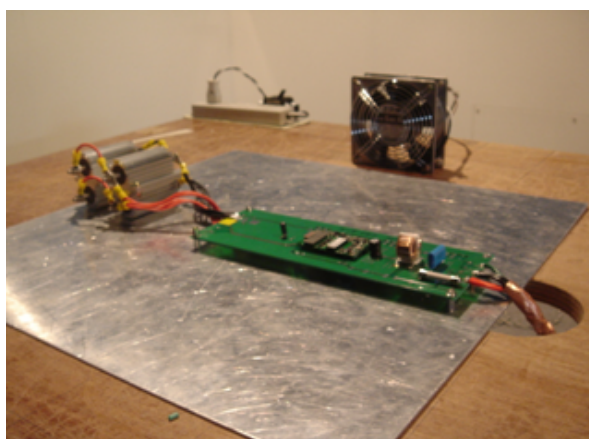
Model Name :CQS48050-28

Date 2007/1/11

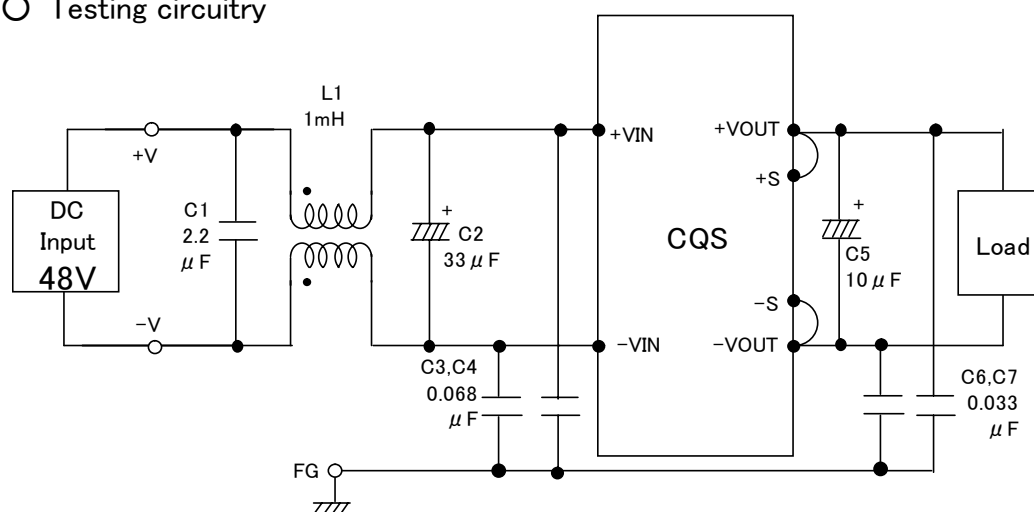
○Photographs of Test Set-Up
LINE CONDUCTION



RADIATED EMISSION



○ Testing circuitry



- L1 : 1mH 5A Inductor
- C1 : 2.2 μ F Film capacitor
- C2 : 100V 33 μ F Electric capacitor
- C3,4 : 630V 0.068 μ F Film capacitor
- C5 : 10V 10 μ F Electric capacitor
- C6,7 : 630V 0.033 μ F Film capacitor