

Summary of Project

<p>TEST REPORT IEC 60384-14:2005 (3rd Edition) and/or EN 60384-14:2005 Fixed capacitors for use in electronic equipment Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains</p>	
Report Reference No.....	93200
Approved by (name + signature).....	Tore Ledaal <i>Tore Ledaal</i>
Date of issue	8 November 2007
CB Testing Laboratory	Nemko A/S
Address	P.O. Box 73 Blindern, N-0314 Oslo, Norway
Testing location/ procedure	CBTL <input checked="" type="checkbox"/> TMP <input type="checkbox"/> WMT <input type="checkbox"/> SMT <input type="checkbox"/> RMT <input type="checkbox"/>
Testing location/ address	Same as above
Applicant's name	Huajung Electronics (Guang Dong) Co. , Ltd
Address	West Shijie 3 Villiage Ind Area. Ke Ji Dong Road, China
Test specification:	
Standard.....	IEC 60384-14:2005 (Third Edition) EN 60384-14:2005
Test procedure	CB / CCA
Non-standard test method.....	N/A
Test Report Form No	IECEN60384_14A
Test Report Form(s) Originator.....	SGS Fimko Ltd
Master TRF	Dated 2006-08
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Test item description	Fixed capacitors
Trade Mark	HJC
Manufacturer	Same as applicant.
Model/Type reference	MPPN series
Ratings	Passive flammability category B

Summary of testing:
This project is only have to conduct the Pass flammability test (sub-cl. 4.17) for the capacitors.
The passive flammability Category B is used, meaning maximum 10 sec. of burning time after the flame is removed form the sample. According to the Standard no sample in a series are allowed to burn more than 10 sec. after removal of flame.
If one sample fail in a series fails — the whole series is deemed to fail.

Result of testing:

MPPN series Passed the test and is in conformity with clause 4.17



Test item particulars	Fixed capacitors for electromagnetic interference suppression and connection to the supply mains
Classification of installation and use.....	N/A
Supply Connection	N/A
.....	
.....	
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
Testing	
Date of receipt of test item	October 2007
Date(s) of performance of tests	November 2007
General remarks:	
<p>The test results presented in this report relate only to the object(s) tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma <input checked="" type="checkbox"/> / point <input type="checkbox"/> is used as the decimal separator.</p>	
General product information:	
The Capacitor under test is tested according Passive flammability category B.	

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	TEST FOR GROUP 6	P
4.17	Passive flammability test :	—
	Category of flammability, maximum permitted burning time : <input type="checkbox"/> A (5 s) <input checked="" type="checkbox"/> B (10 s) <input type="checkbox"/> C (30 s)	—

Volume of samples mm ³ / capacitance	≤ 250 mm ³	251-500 mm ³	501-1750 mm ³	> 1750 mm ³
Flame exposure time (s)	10	20	30	60
Model(s).	Burning time (s)			
MPPN-684J0450DB1151			1.6	
MPPN-684J0450DB1151			1.0	
MPPN-684J0450DB1151			2.0	
MPPN-475J0450DB1221				0
MPPN-475J0450DB1221				0
MPPN-475J0450DB1221				0
MPPN-104J0450DB1101		0		
MPPN-104J0450DB1101		1.0		
MPPN-104J0450DB1101		2.0		

R.V	450VDC				
Size Cap.	W	H	T	P	dφ
0.1	13.0	10.5	4.5	10.0	0.6
0.22	13.0	12.5	6.5	10.0	0.6
0.33	13.0	15.0	7.0	10.0	0.6
0.33	18.0	13.0	5.0	15.0	0.8
0.47	13.0	18.5	7.5	10.0	0.6
0.47	18.0	14.0	5.5	15.0	0.8
0.56	13.0	19.5	8.5	10.0	0.6
0.56	18.0	15.5	6.5	15.0	0.8
0.68	13.0	20.5	9.5	10.0	0.6
0.68	18.0	16.0	7.0	15.0	0.8
1.0	18.0	17.0	8.5	15.0	0.8
1.0	18.0	17.5	8.5	15.0	0.8
1.0	18.0	18.5	7.5	15.0	0.8
1.0	18.0	23.5	13.0	15.0	0.8
1.0	26.0	23.5	13.0	22.5	0.8
2.2	26.0	21.5	10.5	22.5	0.8
4.7	26.0	27.0	17.5	22.5	0.8