



# CERTIFICATION RECORD

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The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings)

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File No: 053787\_C\_000  
Class No: 1422 30 FUSES Supplemental Fuses - Component Acceptance

## SUBMITTOR

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USA

## FACTORIES

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4648953 Dongguan Cooper Electronics Co. Ltd  
Xin Min Industrial Estate  
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Dongguan, Guangdong 523879  
China

4723601 Cooper Electronic Technolgoies  
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955 Sheng Li Road  
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SEE ALSO SATELLITE FACTORY FILES 214615, 095957\_0\_000, 226687, 237387

June 18, 2007(Replaces: June 4, 2007)

Fuses listed below comply with the latest requirements of CSA Std. C22.2 No. 248.14 in so far as they have been applied.

- 1608FF, 250mA-4.0A, 24V dc, IR24-35A.
- JJNXXL, 0-60A, JJNXXLS, 35-60A, JJNXXL-01, 35-60A, 300V ac max, IR-300-200KA.
- JJN-V, 35-60A, 300V ac max, IR 300-200KA.
- TPA, 3-50A, 170V dc max, IR170-100kA.
- TPA-B 20, WP-92955L7, 20A, 65V dc max, IR65-20kA.
- TPA-B25, WP-92955L8, 25A, 65V dc max, IR65-20kA.
- TPN or WP9246121-229, 1-600A, 170V dc max; IR170-100kA.
- TPL-B followed by A, B, D, F, H, K or L, 70, 80, 100, 150, 200, 225 and 250A, 170V ac/dc max, IR170-100kA.
- TPL-C followed by N, R, V or Z, 300, 400, 500 and 600A, TPL-CHZ 800, 800A, 170V ac/dc max, IR170-100kA.
- TPS 1L to -30L, 1-30A, 170V dc max, IR170-100kA.
- TPS 0 to 70, or WP2461L100 to L111, 0-70A, 170V dc max, IR170-100kA.
- TPS-50v, 50A, 170V dc max, IR170-100kA.
- ABC, ABC-V and GLW, 18A, 250V ac max, IR250-400A.
- ABC, ABC-V and GLW, 20A, 250V ac max, IR250-400A, IR125-1000A, IR125-10kA; 125V dc, IR125-10kA.
- ABC, ABC-V and GLW, 25A, 30A, 125V ac max, IR 125-1000A, IR125-10kA, 125V dc, IR125-400A, IR75-1000A.
- AGC-V, 11-30A, 32V and less, IR-32-10kA.
- Micro fuse, SFT, 0-1/8A, 125V ac/dc and less, IR125V ac-50A, IR125V dc-300A.
- Micro fuse, MCR, 0-1/8A, 125V ac/dc and less, IR 125V ac-50A, IR125V dc-300A.
- Micro fuse, 3216FF, 3216FF-R, 0-1A, 32V ac/63V dc and less, IR32V-50A, IR63V-50A.
- Micro fuse, 3216FF, 3216FF-R, 3.5-7A, 32V ac/dc, IR-50A dc.
- Micro fuse, 3216CP, 0-5A, 24V dc and less, IR24-35A.
- Micro fuse, 3216LV, 3216LV-R, 0-1A, 125V ac/dc and less, 3216LV-1J0289, 2/10A, 125V ac/dc, IR125-50A ac/dc.
- FWH, 0-800A, 500V ac max, IR500-200kA ac, 500V dc, IR500-10kA dc.
- DO-35, 0.250-3.5A, 32V ac/dc, IR32-50A ac unity power factory/dc time constant resistive, type circuit protector.
- Microfuse, non-renewable, intended for surface mounting on printed circuit boards, Cat. Nos. 1206FA, 1206FA-T, 0-1A, 63V dc and less, IR63V dc - 50A; 1.1-2A, 48V dc and less, IR48V dc - 50A; 2.1-7A, 32V dc and less, IR32V dc - 35A.
- Microfuse, non-renewable, intended for surface mounting on printed circuit boards, Cat. Nos. 1206CP, 1206CP-T, 0-3A, 32V dc and less, IR32V dc - 35A.
- Microfuse, non-renewable, intended for surface mounting on printed circuit boards, Cat. Nos. 0603FA, 0603FA-R, 0603FA-T, 0.250-1A, 32V dc and less, IR32V dc - 50A; 1.1-2A, 32V dc and less, IR32V dc - 35A; 2.1-5A, 24V dc and less, IR24V dc - 35A.
- Microfuse, non-renewable, intended for surface mounting on printed circuit boards, Cat Nos 0402FA, 0402FA-T, 0.100-3A, 13.8V dc and less with IR 13.8-35A dc.

FUSE TYPE	RATING A, V, ac/dc, pf/tc	OVERLOAD RATING % Rated A / Max. Time	INTERRUPTING RATING V-A
ANN	35 - 400A, 125Vac, 0.80 35 - 500A, 80Vdc,	300% / 20 sec	125-2500A ac 80-2700A dc

	5msec.		
ANL	35 - 750A, 80Vdc, 5msec 250% / 5 min		80-2700A dc
TPS-40L	40A, 170V ac/dc max	-	170V-100kA
TPS-40V, 84736961	40A, 170V ac/dc max.,	-	170V-100kA
TPS 41L -70L	41-70A, 170Vac	-	170-100kA ac (20% PF) 170-100kA dc (TS 10ms)
TPS 61L -70L	61-70A, 170Vdc	-	170-100kA dc (TS 10ms).
TPS35-70LB	35-70A, 170V dc	-	170-100kA dc (TS 10ms)
MDA/MDA-V	25-30A, 250Vac	-	250-1500A (PF 1.0)
MDA-R/MDA-V-R	25-30A, 125V dc	-	125-10000A res.
IJS-V	0-30A, 35-60A, 600V ac	-	600-200kA
6125TD, 6125TD-R, 6125FA	0-7A, 125V ac, 60V dc	-	125-50A (PF 1.0), 60-50A (TCL50 micro sec.)
1025FA, 1025FA-R, 1025TD, 1025TD-R	0-5A, 250V ac, 125V dc	-	250-50A, pf unit, 125-50A, TCL50 micro sec
GBB, GBB-R or WP- 92458L1-L16	0-3/4A, 60V dc 1-15A, 125V dc 20-30A, 125V dc	150%-60 min, 250%- 1sec 150%-2min, 250%-1 sec 150%-2 min, 250%-6 sec	IR60-200A resistive IR125-10kA TC 3.5 ms IR125-200A TC 0.5 ms
GBB-V, GBB-R-V	1-15A, 125V ac 1-30A, 250V ac	150%-2min, 250%-1 sec 150%-2 min, 250%-6 sec	IR125-10kA .7-.8 pf IR250-200A .9-1.0 pf
TCP	0.500mA - 2.0A 600V ac max	250% - 2 min	IR250-50A, 1.0pF IR600-60A, 1.0pF
KAA	0-30A, 130V ac	-	IR130-80kA
GMT	1/10-15A, 125V ac/dc, 60V dc	Refer to report.	IR125-300A ac, pf 1.0 IR125-300A dc, resistive IR60-450A dc, resistive

- Special purpose fuses, semiconductor type, Protection Class aR, Cat No 170M6557, rated 850A, 1750Vac, IR 1750-100kA; Cat No 170M6700, rated 1250A, 1000V ac, IR 1000-100kA.
- Special purpose fuses, semiconductor type, Protection Class aR, Size 3, 1000-1400A, 1000V ac, IR1000-100kA, Type 3FU/115, Cat No's 170M6698, 170M6699, 170M6700, 170M6701, Type 3FKE/115, Cat No's 170M6748, 170M6749, 170M6750 and 170M6751. Type 3BKN/80, Catalog Numbers 170M6547, 170M6548 and 170M6549.
- Special purpose fuses, semiconductor type, Cat No 171A with suffixes, Size 00, protection Class aM (Motor Protection), rated 16-160A, 600V ac, IR600-100kA, min interrupting level of 700 % of fuse ampere rating; protection Class gL (General Purpose), rated 4-10A, 600V ac, IR600-100kA, min interrupting level of 200 % of fuse ampere rating.
- Special Purpose fuses, semiconductor type, Protection Class aR, Series/Cat No 170M with 4 digit suffix, Size 3, Blade Types, DIN 3 Type SHT Indicator for Micro, rated 700V ac, 500 - 1600A,

- IR700 - 200kA max and 500V ac, 1800 - 2000A, IR500 - 200kA.
- Special purpose fuses, semiconductor type, Protection Class aR, Series/Cat No 170M with 4 digit suffix, 700V ac, sizes 1\* rated 40-630A, 1 rated 200-800A, 2 rated 400-1250A and 3 rated 500-1600A, IR700-200kA max, including, but not restricted to, 630A Cat No 170M4716 or 323A2433P9, 700A, Cat No 170M4717 or 323A2433P6, 1250A, Cat No 170M6716 or 323A2432P59; 1300V ac, sizes 1\* rated 50-400A, 1 rated 160-550A, 2 rated 250-800A and size 3 rated 315-900A, IR1300-100kA max, including, but not restricted to 160A, Cat No 170M3743 or A323A2433P16, 400A, Cat No 170M5592 or 323A243P11, 450A, Cat No 170M6691 or 323A2433P25, 630A, Cat No 170M6744 or 323A2433P19, 700A, Cat No 170M6745 or 323A2433P20, 800A, Cat No 170M6746 or 323A2433P15, 900A, Cat No 170M6747 or 323A2433P13.
  - Special Purpose Semiconductor Fuses, Size 0000, Cat No's 170M0108-170M0117, 170M0158-170M0167, 170M0208-170M0217, 170M0258-170M0267: Protection Class gR, rated 10-40A, 660V ac, IR660-200kA, Protection Class gR, rated 50-100A, 660V ac, IR660-200kA.
  - Special Purpose Semiconductor Fuses, Size 000, Cat No's 170M1308-170M1322, 170M1358-170M1372, 170M1408-170M1422, 170M1458-170M1472, 170M1508-170M1522, 10RFEE-315RFEE, 10RFEEI- 315RFEEI: Protection Class gR, rated 10 - 63A, 700V ac/dc, IR700-200kA ac, IR700-50kA dc, Protection Class gR, rated 80 - 315A, 700V ac/dc, IR700-200kA ac, IR700-50kA dc.
  - Special Purpose Semiconductor IGBT Fuses, Size 000/90, 170M1802-1813, 170M1842-1853: Protection Class aR, rated 25-250A, 1000V dc, IR 1000-50kA dc.
  - Special purpose semiconductor IGBT Fuses, Size 000/70, 170M1750-1762, 170M1730-1742; Protection Class aR, rated 25-350A, 800V dc, IR800-50kA dc.
  - Special purpose semiconductor IGBT Fuses, Size 230/90, 170M1824-1833, 170M1860-1869; Protection Class aR, rated 100-500A, 1000V dc, IR 1000-50kA dc.
  - Special purpose semiconductor IGBT Fuses, Size 230/70, 170M1770-1781, 170M1785-1796; Protection Class aR, rated 100-630A, 800V dc, IR 800-50kA dc.
  - Special Purpose Semiconductor Fuses, Size 000, Cat No's 170M1360-1 - 170M1372-1: Protection Class gR, rated 10 - 63A, 690V ac, 700V dc, IR690-200kA ac, IR700-50kA dc, Protection Class gR, rated 80 - 315A, 690V ac, 700V dc, IR690-200kA ac, IR700-50kA dc.
  - Special purpose fuses, semiconductor Type 250V ac/dc max; Cat. No FWX5-30A14Fb, rated 5-30A, IR-200kA ac, IR-50kA dc; 500V ac max. Cat No FWH5-30A14F and XL50F5-30, FWH35B-200B, XL50F35-200 and XL50FM125-200, XL50F201-800 and XL50F201-800, FWH900-1600 and XL50F900-1600, rated 5-30A, 35-200A, 201-800A and 900-1600A respectively, IR500-200kA ac; 500V dc max. Cat No FWH5-30A14F and XL50F5-30, FWH35B-200B and XL50F35-200, XL50FM125-200, XL50F201-700, XL50F800A (TC 8ms) and XL50FM201-800, rated 5-30A, 35-200A, 201-800A respectively, IR500-50kA dc.
  - Special purpose fuses, semiconductor type, 700V ac max, Cat No FWP1-50A14Fa, XL70F5-30, FWP35B-100B, XL70F35-100, XL70F101-600, FWP700-800, XL70F700-800, FWP900-1200, XL70F900-1200, rated 1-50A, 5-30A, 35-100A, 101-600A, 700-800A, 900-1200A respectively, IR700-200kA ac; 700V dc max; Cat No FWP1-50A14Fa and XL70F5-30, FWP35-100B and XL70F35-100, XL70F101-600, rated 1-50A, 5-30A, 35-100A and 101-600A respectively, IR700-50kA dc.
  - Special purpose fuses semiconductor type, 800V dc max., Cat No FWP5-50A14Fa, 5-50A, IR800-50kA dc resistive.
  - Special purpose fuses, semiconductor type, 700V ac/dc max, Cat No FWP with suffixes, rated 31-600A, IR700-200kA ac, IR 700-10kA dc.
  - Special purpose semiconductor fuses FWPQ (450-600)A, 700V ac, IR 700-200kA; 700V dc, IR 700-100kA.
  - Special Purpose Semiconductor Fuses FWP(20-100)A22Fa, 700Vac, IR 700-200kA; FWH(001-

- 007)A6F, 500V ac, IR 500-50kA
- Special Purpose Fuses, semiconductor type, FWC-(xxx)A10F, rated 6-32A max, 600V ac, IR600-200kA ac, 6-25A,700Vdc, IR700-10kA dc.
- Special Purpose Semiconductor Fuses FWX 35A-800A, 250V ac/dc, IR 250-200kA ac, IR 250-50kA dc.
- Special Purpose Semiconductor Fuses FWH 35-800A, 500V ac/dc, IR 500-200kA, IR 500-50kA dc.
- Special Purpose Semiconductor Fuses,Types:
  - FWA-(5-30)A10F, 150V ac, IR 150-200kA ac; 150V dc, IR 150-50kA dc.
  - FWA-(35-60)A21F, 150V ac, IR 150-200kA ac; 150V dc, IR 150-50kA dc.
  - FWA-(70-400)B, IR 150-100kA ac; 150V dc, IR 150-200kA dc; 80V dc, IR 80-100kA dc.
- **Special purpose semiconductor Fuses, Size 00/80, 00TN/80, DIN 00; 170M4802-4814, 170M4822-4834, 170M2673-2683, Protection Class aR, rated 20-250A, 1000V ac, IR 1000-125kA ac, minimum IR 500%.**
- **Special purpose semiconductor Fuses, Size 2; 170M5952-5961, 170M5542-5551, 170M5922-5931, 170M5966-5975 Protection Class aR, rated 250-800A, 1000V ac, IR 1000-125kA ac, minimum IR 700%.**
- **Special purpose semiconductor Fuses, Size 3; 170M8600-8611, 170M8660-8671, 170M8500-8511, 170M8614-8625 Protection Class aR, rated 315-1100, 1000V ac, IR 1000-125kA ac, minimum IR 700%.**
- Special purpose fuses, semiconductor type, Protection Class aR, Series/Cat No 170M with 4 digit suffix, Size 1 and Size 3, Blade Types, DIN 1 and DIN 3 Type SHT Indicator for Micro, rated 1300V ac, 160-450A, IR 1300-100kA max, and 315-900A, IR 1300-100kA max.
- Special purpose, Semiconductor Fuses, Size 000; 170M1558D-1565D, Protection Class gR, rated 10-63A, 700V ac, IR 700-200kA..
- Special purpose, Semiconductor Fuses, Size 000; 170M1566D-1571D, Protection Class aR, rated 80-250A, 700V ac, IR 700-200kA, minimum IR 500%.
- Special purpose, Semiconductor Fuses, Size 000; 170M1572D, Protection Class aR, rated 315A, 700V ac, IR 700-200kA, minimum IR 500%.
- Special purpose, Semiconductor Fuses, Size 1; 170M3808D-3819D, 170M4866D, Protection Class aR, rated 40-630V, 700V ac, IR 700-200kA, minimum IR 600%
- Special purpose, Semiconductor Fuses, Size 2; 170M5808D-5814D, 170M5816D, 170M5820D Protection Class aR, rated 400-1000A, 700V ac, IR 700-200kA, minimum IR 600%
- Special purpose, Semiconductor Fuses, Size 3; 170M6808D-6814D, 170M6892D, 170M8554D-8557D, Protection Class aR, rated 500-1600A, 700V ac, minimum IR 650%
- Special purpose fuses, semiconductor type, Protection Class aR, Size 2 Catalog Numbers  
Cat. Nos. 170M5149, 170M5199, 170M5249, 170M5499, 170M5649 rated 900A, 900 V dc, 80 kA.  
Cat. Nos. 170M5150, 170M5200, 170M5250, 170M5500, 170M5650 rated 1000A, 900 V dc, 80 kA.  
Cat. Nos. 1700X0775-02N, 2SKN/125 rated 900 A, 900 V dc, 80 kA rated 900 Vdc, 900-1000A, IR 900-80ka max Minimum interrupting rating of 10X..
- Special Purpose Fuses, non-renewable, Cat No TCP, Telecom Circuit Protectors, 500mA-2A, voltage and IR ratings:

500mA - 125A 250V ac	IR 250-50A, 1.0% pf
600V ac	IR 250-40A, 1.0% pf
125A 600V ac	IR 250-60A, 1.0% pf
2A 250V ac	IR 250-50A, 1.0% pf
600V ac	IR 250-60A, 1.0% pf

- Special Purpose Fuses, non-renewable, Cat No PC06F, 0-5A, voltage and IR ratings as listed below:

0-5A 32V ac, IR 32-50A, 1.0 pf, 32V dc, IR 32-50A

- Special purpose fuses, non-renewable, Cat No PCD6HV, 0.250-0.375A, voltage and IR ratings as listed below:

0.250-0.375A 50V ac, IR50-50A, 1.0 pf, 50V dc, IR50-50A

- Special Purpose Fuses, non-renewable, Cat No. MCRF-XXX-R, 500mA-5A, voltage and IR ratings as listed below:

500mA-5A 125V ac, IR 125-50A, .7-.8 pf, 125V dc IR 125-50A

- Special Purpose Fuses, non-renewable, Cat No S505, S505-XXX-R, S505-V, S505-V-XXX-R, 500mA-10 voltage and IR ratings as listed below:

500mA-6.3A	250V ac	IR250-1500A, 70-80 % pf
8-10A	250V ac	IR250-1000A, 100% pf

- Supplemental fuses Type GDA, GDA-V, S501, S501-XXX-R, S501-V, S501-V-XXX-R, 20mm by 5mm, 50mA to 6.3A, 250V ac, IR250-100A, 8A-10A, 250V ac, IR250-200A.
- Supplemental fuses Type GDB, GDB-V, S500, S500-XXX-R, S500-V-XXX-R, 5 by 20mm, .032-10A, 250V ac and less, IR250-35A (0.8A and less); IR250-63A (1 to 6.3A ); IR250-35A, (8-10A).
- Supplemental fuses Type GDC, GDC-V, S506-XXX-R, S506-V, S506-V-XXX-R, 20mm by 5mm, time-delay, rated .05 to 10A, 250V ac, IR250-35A.
- Special Purpose fuses non-renewable Cat. No. 6125FF-XXX-R, 250mA-15A, voltage and IR ratings as listed below:  
250mA-15A, 125V ac, IR 125-50A, .85-.95 pf, 72V dc, IR 72-50A; 32V dc, IR 32-300A.

Notes:

1. These fuses are components for use in other equipment where the suitability of the combination is determined by CSA International. NOT FOR BRANCH CIRCUIT PROTECTION.
2. Temperature and current carrying capacity and clearing time/overload characteristics must be evaluated in the end use equipment where appropriate.
3. Interrupting ratings (IR) are limited to 200kA for 500 and 700V ac and 50kA for 500 and 700V dc.
4. Short circuit ratings may be other than those found in Standard No 248.14.

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