



LITTELFUSE INC  
MR. WILLIAM TRAVIS  
800 E NORTHWEST HWY  
DES PLAINES IL 60016

**RE: Project Number(s) - 09NK04311**

Your most recent Certification is shown below. Please review the text and contact the Customer Service Professional who assisted with your project if revisions are required.

To view your company's current Listing Information or for ordering Listing Information in the 3 x 5-inch card format, please refer to www.ul.com.

**JDYX2**

March 12, 2009

**Fuses, Supplemental - Component**

**LITTELFUSE INC  
800 E NORTHWEST HWY, DES PLAINES IL 60016**

**E10480**

**With pigtail leads**

**Micros**, Cat. Nos. 262\*, 268\*, 272\*, 273\*, 278\*, 279\* followed by three digit decimal suffix.002 to.999 incl. or suffix 01.5, 0.002-5 amps, 125 v, ac or dc.

Cat. Nos. 255\*, 256\*, 275\*, 276\* followed by three digit decimal suffix.062 to 010 incl., rated 0.0625-10 amps 125 v, ac or dc; Cat. No. 250041, rated 10 amp, 125 v, ac or dc; Cat. No. 250034, 5 amp, rated 125 v, ac or dc; Cat. No. 263\* followed by.062 to 005 incl., rated 0.062-5 amps, 250 v, ac; Cat. No. 250038\*, -039, 7-10 amps, rated 125 v, ac or dc; Cat. Nos. 255\*, 256\*, 265\*, 266\*, 275\*, 276\*, 492\* followed by three digit decimal suffix 012 to 030 incl., rated 12-30 amps, 32 v, ac or dc; Cat. No. 270\* followed by suffix Nos. 160 to 175 incl., rated 0.062-10 amps 125 v, dc.

Cat. Nos. 473\*, 474\* rated 0-7.0 amps 125 v, ac or dc.

Cat. No. 471, 499\* rated 0.5-5 amps, 125 v, ac or dc.

Cat. Nos. 251\*, 252\*, 255\*, 256\*, 491\*, 492\* followed by .062 to 010, rated 0.062 to 10A, 125Vac or dc; Cat. Nos. 251\*, 252\*, 255\*, 256\*, 491\*, 492\* followed by 012-015, rated 12-15A, 32Vac or dc; Cat. Nos. 251\*, 491\*, 492 followed by .062, rated 0.062A, 250Vac.

Cat. No. 250041, rated 10 amp, 125 v, ac or dc; Cat. No. 250034, 5 amp, rated 125 v, ac or dc; Cat. No. 263\* followed by 062 to 005 incl., rated 0.062-5 amps, 250 v, ac; Cat. No. 250038\*, -039, 7-10 amps, rated 125 v, ac or dc.

677 Series, rated 250mA-6.3A, 250 Vac.

Cat. Nos. 265\*, 266\* followed by three-digit decimal suffix 0.062 to 010 incl., 125V, ac or dc.

Cat. No. 242xxxA followed by .050-250 250 V ac or dc.

Cat. No. 445070, rated 2 A, 250 V ac.

Cat. No. 472\*, rated 0.5-5.0A, 125 V ac or dc.

Cat. No. 876, followed by .050 through 06.3, with or without additional suffix characters, may be followed by "P". Rated 0.05 - 6.3A, 250 Vac.

Series 877 rated 0.25-6.3A, 250 V ac.

**Miniatures**, Cat. Nos. 313\*+, 315\*+, F02B, 313ID\*+ followed by 012 to 030 incl., rated 12-30 amps, 32 v, ac.

Series 221\* followed by 0.125 to 012 incl., rated 0.125-12 amps, 250 v, ac.

676 Series, rated 0.05-6.3A, 250 Vac.

Cat. Nos. 270154, 270181, rated 0.350 amp, 600 v, dc.

Cat. No. 230\* followed by 004 to 007 incl., rated 4-7 amps, 125 v, ac/dc; Cat. No. 208xxx\*, rated 0.25-1 amp, 350Vac; Cat. No. WP90904 followed by 111 to 113 incl.; Cat. No. rated 5 amps, 250 v, ac, 125 v, dc; Cat. No. 220059+, rated 7A, 350 Vac.

Cat. No. 228\* followed by 0.032 to 10 incl., rated 0.032-10 amps, 250 v, ac.

Cat. No. 324\*+, followed by 020; Cat. No. WP91768 followed by List 17, rated 300 v, ac, 125 v, dc; Cat. No. 324\*+ followed by 025 or 030; Cat. No. WP91768 followed by List 18 or 19, rated 250 v, ac, 125 v, dc; Cat. Nos. 324015MX280, 324020MX280, 324025MX280, rated 280Vac; Cat. No. 324040, rated 250V ac, 150V dc.

Cat. No. 325\*+ followed by 012 to 030 incl.; Cat. No. WP91769, followed by List 35 to 39 incl., rated 12 to 20 amps, 250 v, ac, 60 vdc 25 to 30 amps, 125 v, ac 60 vdc, 25A, 125vdc; Cat. No. 325/326D\* followed by 012 to 020 incl., rated 12 to 20 amps, 250 v, ac.

Series 223\* followed by 0.2 to 005 incl., rated 0.2-5 amps, 250 v, ac.

Series 2206\* followed by.750-003, rated 0.75-3A, 125/300 v, ac.

Series 2205\* followed by .250-001 rated 0.25-1A, 125/250/600 v, ac; 2205\* followed by 1.25-02.5, rated 1.25-2.5A, 125/250 v, ac.



Cat. No. 220007\*+, rated 3A/350 Vac; Cat. No. 220019\*+, rated 3A/350 Vac/125Vdc; Cat. No. 209xxx\*, rated 0.25-3 amp, 350Vac; Cat. No. 220007\*+, rated 3A/530 Vac; Cat. No. 220012\*+, rated 2A/350 Vac; Cat. No. 220013+, rated 5A/300 Vac; Cat. No. 220044\*+, rated 1A/350 V ac; Cat. No. 220060\*+, rated 0.5A/350 V ac; Cat. No. 220061\*+, rated 0.75A/350 V ac.

Cat. No. 242 followed by .050-.250 rated 250V ac or dc.

Cat. No. 224xxxU+ where xxx is replaced with the ampere rating rated 4-10A, 125Vac, 4-5A, 250Vac; Cat. No. WP90736 followed by 112-115 incl.; Cat. No. 208, rated 1.5-10A, 350Vac.

Cat. No. 259 followed by .125-.250 rated 250V ac or 63 Vdc.

Cat. Nos. 478, 478E, 479, 479E, rated 0.5-10A, 600Vac.

Cat. No. 318, rated 12-30A, 32 V ac or dc.

Cat. No. A310, rated 1.0-15A, 250Vac.

Series 505, 605, rated 10-12A, 450Vac and 15-30A, 500V ac/dc.

#### For PC board mount

Micro, Cat. No. 202\* followed by three digit decimal suffix 0.063 to 005 incl., rated 0.063-5 amps, 250 v, ac; Cat. No. 203\* followed by three digit decimal suffix 0.250 to 005 incl., rated 0.25-5 amps, 250 v, ac.

Cat. No. 448 followed by three digit suffix .062 to 015 incl., rated 0.062 to 10 amps, 125 V ac; and 125 V dc; and 12 to 15 amps, 65 V ac; and 65 Vdc.

#### For surface mounts

Micro, Cat. No. 271\* followed by three digit decimal suffix.062 to 015 incl., rated 0.062-0.5 amps, 125 v, ac or dc, 0.75-4 amps, 60 v, ac or dc, 5-15 amps, 32 v, ac or dc.

Series 434\*, 467\* or 494\*, followed by .02 to 5 incl., rated .025-5 amps, 32 v, ac or dc; Series 434\* or 467\*, followed by .02 1.25 to 1.5 incl., rated 1.25-1.5 amps, 65 vdc; Cat. No. 4000004, rated 0.5A, 32 ac or dc; Cat. No. 4000005, rated 2A, 32 vac or dc; Cat. No. 4000007, rated 0.75A, 32 vac or dc; Cat. No. 4000008, rated 0.2A, 32 vac or dc; 4000009, rated 0.5A, 32 vac or dc; Cat. No. 4000010, rated 1A, 32 vac or dc; 4000011, rated 1.25A, 32vac or dc; Cat. No. 4000012, rated 1.4A, 32 vac or dc; Cat. No. 4000013, rated 2A, 32 vac or dc.

Series 435, 497, rated 0.25-5A amps, 32V dc.

Series 451\*, 453\*, 490, 450011MR, followed by 6.3 to 010 incl., rated. 6.3-10 amps, 125 v, ac or dc maximum; Series 451\*, 453\*, 490, 450011MR, followed by 012 to 015 incl., rated 12-15 amps, 65 v, ac or dc; Series 452\*, 454\*, followed by.375 to 005 incl., rated 0.375, -5 amps, 125 v, ac or dc; Series 451, followed by 002 to 005 incl., rated 2-5 amps, 75 Vdc.

Series 456, followed by suffix Nos. 020, 025, 030, 040 with or without one prefix and with or without up to three additional suffix letters; suffix Nos. 020, 025, 030 rated 125 Vac & 100Vdc maximum and suffix Nos. 040 rated 60Vdc maximum.

Series 461\*, F0500T, F1250T, F1251T rated 0.500-2 amps, 600 Vac; Series 443\* rated 0.5 to 5 A, 250Vac; Cat. Nos E4611.25ER, 4611.25EER rated 1.25A, 600Vac.

Series 429\*, rated 4-7 amps, 24 v ac or dc.

Cat. No. 450002\*, rated.500 amps; Cat. No. 450007, rated 2 amp.; Cat. No. 450005, rated 3 amps.

Cat. Nos. 420001\*, rated 1A; Cat. No. 420002\*, rated 1.5A; Cat. No. 420003\*, rated 2A; Cat. No. 420004\*, rated 2.5A; Cat. No. 420005\*, rated 3A; Cat. No. 420006\*, rated 3.5A; Cat. No. 420007\*, rated 4A; Cat. No. 420008\*, rated 5A all rated 250 v, ac.

Cat. No. 459\*, rated 0.062-5 amps, 125 v, ac or dc; Cat. No. 460\*, 0.375-5 amps, 125 v, ac or dc.

Cat. No. 433\*, 466\* or 493\*, rated 0.125-0.375 amps, 125 v ac/dc, rated 0.5-2.0 amps, 63 v ac/dc, rated 2.5-5A, 32 v ac/dc; Cat. No. 466\*, rated 6-10 amps, 24 v ac/dc; Cat. No. 433\*, rated 4-7A, 24 v, ac/dc.

Series 468 rated 0.5A-2.5A 63v ac/dc, rated 3A, 32 v ac/dc.

Series 449\* rated 0.375A-5A 125v ac/dc.

Series 458, followed by 001-010 with or without one prefix and with or without up to three additional suffix letters rated 63Vdc.

Cat. No. 437\*, rated 0.25-0.375 amps, 125 v ac/dc; rated 0.5-2 amps, 63 v ac/dc; rated 2.5-8 amps, 32 v ac/dc.

Cat. No. 438\* rated 0.25-5.0A, 32 Vdc, 6A, 24 Vdc.

#### For use with fuse holders

Miniatures, Cat. No. 326\*+ followed by 012, 015, 020, rated 12-20 amps, 250 v, ac, 60 vdc followed by 025, 030, rated 25-30 amp, 125 v, ac/dc, Cat. No. 60 vdc WP91769 followed by 135 to 139 incl., rated 12-20 amp, 250 v, ac, 25-30 amp, 125 v, ac.

Series 213\*+ followed by 0.2 to 6.3 incl., rated 0.2- 6.3 amps, 250 v, ac.

Cat. Nos. 216\*+, 226\*, 616 followed by 0.050 to 16 incl., 0.05-16 amp, 250 v, ac; Cat. Nos. 216, 616 followed by 1.25 - 6.3 amp., 50 vdc; Cat. Nos. 216, 226, 616 followed by 1 to 1.25 incl., 300 V ac.

Series 218\*+, 618\* followed by.032 to 16 incl., rated 0.032-16 amp, 250 v, ac.

Series 219xxxA\*+, rated 0.040-6.3A, 250 Vac.

Series 217\*+, 617\*, 227\* followed by 032 through 10.0, rated 0.032-10.0 amp, 250 v, ac, 2-6.3 amp, 60 V dc, 2-3.15A, 75V dc.

Cat. Nos. 322001\* to 322010\* incl., rated 1 - 10A, 125/250Vac, 65Vdc; Cat. No. WP92458 followed by List 1-11, rated 1 - 10A, 125/250Vac, 65Vdc; Cat. Nos. rated 12 - 30A, 65Vac, 65Vdc.

Series 332 followed by -001 through -010, with or without 1 to 3 additional suffix characters, rated 1 through 10 A, 250 V ac, 120 V dc, 72 V dc.

Cat. No. 220\*+ followed by 015; Cat. Nos. 220021, -022+, 4-7 amps, 125 v, ac; Cat. No. 229\* followed by 004 to 007 incl., 4-7 amps, 125 v, ac; Cat. No. WP90904 followed by List 11 to 13 incl.

Series 210\*, 215\*+ followed by 0.125-025 incl., 0.125-25 amps, 250 v, ac.

Series A210\*+ followed by 0.125-012 incl., 0.125-12 amps, 250 v, ac.

Cat. No. 314\*+ followed by 020; Cat. No. WP91768 followed by List 117, rated 300 Vac, 125 v, dc; Cat. No. 314\* followed by 025 or 030; Cat. No. WP91768 followed by List 118 or 119, rated 250 Vac, 125 Vdc; Cat. Nos. 314015MX280, 314020MX280, 314025MX280, rated 280Vac; Cat. No. 314040, rated 250V ac, 150V dc.

Cat. No. 220045+, rated 2.0 amps, 350 v, ac, 125 v, dc.

Cat. No. 23001.5, rated 600 V ac.

Cat. No. 65NM, 0.5-4 amps, 125/250 v ac.

Cat. No. 65TS, 16-25A, 250 v ac.

Cat. No. 225xxxU+, where xxx is replaced with the ampere rating rated 4-10A, 125Vac, 4-5A, 250Vac; Cat. No. WP90736 followed by 12-15 incl.

Series 219\*+, followed by 001 through 06.3, rated 1.0-6.3 A, 250Vac.

Series 477, rated 0.5-16A, 500Vac/400Vdc; Series 377, rated 0.5-16A, 500Vac/400Vdc.

Miscellaneous, Cat. No. 585\* followed by 015, 15 amps, 1000 v, ac or dc; Cat. No. FLU 011, followed by A, 1000 v, ac or dc, rated 11A; Cat. No. 586\* followed by 001, 1 amps, 1000 v, ac or dc; Cat. No. FLU.44, followed by A, 1000 v, ac or dc, rated 0.44A.

Cat. No. THV 060T, 0.45-1.0A, 5 kv.

Micro fuses, Type 662 followed by -.040, -.050, -.063, -.080, -.100, -.125, -.160, -.200, -.250, -.315, -.400, -.500, -.630, -.800, -.001, -.1.25, -.01.6, -.002, -.02.5, -.3.15, -.004, -.005, followed by -HXLL, -HXSL or -ZRL, rated 40mA-5A, 250 Vac, 50mA-5A, 125 Vac/dc; Type 663 followed by -.040, -.050, -.063, -.080, -.100, -.125, -.160, -.200, -.250, -.315, -.400, -.500, -.500, -.630, -.800, 0.001, -.1.25, -.01.6, -.002, -.02.5, -.3.15, -.004, -.005, followed by -HXLL, -HXSL or -ZRL, rated 40mA-5A, 250 Vac/125 Vdc; Type 66306.3 followed by -HXLL, -HXSL or -ZRL, rated 40mA-5A, 250Vac/125 Vdc; Type

664 followed by -.800, -.001, -.125, -.01.6, -.002, -.02.5, -.3.15, -.004, -.005, -.06.3, followed by -HXLL, -HXSL or -ZRL, rated 800mA-6.3A, 250Vac.  
Series 501 with or without one prefix and with or without additional suffix characters, rated 15-20A, 24 Vdc.

\*With or without one prefix character and with or without additional suffix characters that signify options that do not affect the electrical characteristics.

+ May be followed by P

Marking: Company name or "LF" and catalog, series or type designation on carton.

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**See General Information Preceding These Recognitions**

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.