



PDM: Rev:U

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MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. 7 MOD. 8 METRAL MOD P/N 19|20|21|22|23|24|25|26|27|28|29|30|31|32|33|34|35|36|37|38|39|40|41|42|43|44|45|46|47|48| 88954-X0I SEE NOTE 9 LEAD FREE В OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 ROW 88954-X02 C SEE NOTE 9 LEAD FREE OPTION В CONTACT CODE MOD. I MOD. 2 MOD. 3 MOD. MOD. 5 MOD. 6 MOD. MOD. 8 METRAL P/N 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X03 SEE NOTE 9 С LEAD FREE OPTION В CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. 7 MOD. 8 METRAL MOD. P/N 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 4 4 4 4 4 4 4 4 4 4 4 4 4 88954-X04 D SEE NOTE 9 LEAD FREE 3 3 3 3 3 3 3 3 3 3 3 3 C 3 3 3 3 OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X05 SEE NOTE 9 LEAD FREE C В 3 3 3 3 OPTION A 3 mat'l code tolerances unless CUSTOMER otherwise specified ltr ecn no. dr date COPY www.fciconnect.com $0.X \pm 0.3$

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PDM: Rev:U

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88954-XII SEE NOTE 9 LEAD FREE В OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 4 4 4 4 4 4 4 4 4 4 4 88954-XI2 D C SEE NOTE 9 LEAD FREE В OPTION CONTACT CODE MOD. I MOD. 2 MOD. 3 MOD. MOD. 5 MOD. 6 MOD. MOD. 8 METRAL P/N 7 8 9 9 10 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 20 2 1 2 2 2 3 2 4 2 5 2 6 2 7 2 8 2 9 3 0 3 1 3 2 3 3 3 4 3 5 3 6 3 7 3 8 3 9 4 0 4 1 4 2 4 3 4 4 4 5 4 6 4 7 4 8 88954-XI3 SEE NOTE 9 С LEAD FREE OPTION В CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD. P/N 12131415161718192021222324252612728293031323334353613738394041424344454614748 88954-XI5 D SEE NOTE 9 C LEAD FREE OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. MOD. 5 MOD. MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-XI6 SEE NOTE 9 LEAD FREE OPTION C В | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 A 3 mat'l code tolerances unless

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88954-X35 SEE NOTE 9 LEAD FREE В OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X36 С SEE NOTE В LEAD FREE OPTION CONTACT CODE MOD. I MOD. 2 MOD. 3 MOD. MOD. 5 MOD. 6 MOD. MOD. 8 METRAL P/N 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 88954-X37 SEE NOTE 9 LEAD FREE С OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. 7 MOD. 8 METRAL MOD. P/N 1213141516171819202122232425261272829303132333435361373839404142434445464748 88954-X38 SEE NOTE 9 LEAD FREE OPTION C 5 5 5 5 5 5 5 CONTACT CODE MOD. 2 MOD. 3 MOD. MOD. 5 MOD. MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 9 10 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 20 2 1 2 2 2 3 2 4 2 5 2 6 2 7 2 8 2 9 3 0 3 1 3 2 3 3 3 4 3 5 3 6 3 7 3 8 3 9 4 0 4 1 4 2 4 3 4 4 4 5 4 6 4 7 4 8 88954-X39 SEE NOTE 9 LEAD FREE C В 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 OPTION A 8 8 8 8 8 8 8 8 8 |8|8|8|8|8|8|8|8|8| 8 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

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SEE NOTE 9 LEAD FREE | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | 2| | OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 ROW 88954-X70 D C SEE NOTE LEAD FREE В OPTION CONTACT CODE MOD. I MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL P/N 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 88954-X71 SEE NOTE 9 С LEAD FREE В CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. 7 MOD. 8 METRAL MOD. P/N 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 88954-X72 D SEE NOTE 9 C LEAD FREE OPTION CONTACT CODE MOD. 2 MOD. 3 MOD. MOD. 5 MOD. MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X73 SEE NOTE 9 LEAD FREE C 9 9 9 9 9 9 В talahdalahdalahdalahdalahdala OPTION A 9 9 9 9 9 9

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MOD. 8

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MOD. 3

MOD.

MOD. 5

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

MOD. 6

MOD. 7

MOD. 2

CONTACT CODE

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MOD

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P/N

88954-X69

STATUS: Released

Printed: Jun 17, 2006

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REV E - 2006-04-18

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88954-X75 SEE NOTE 9 LEAD FREE OPTION Α CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL MOD P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 ROW 88954-X76 D C SEE NOTE LEAD FREE В OPTION CONTACT CODE MOD. I MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. MOD. 8 METRAL P/N 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X77 SEE NOTE 9 С LEAD FREE В CONTACT CODE MOD. MOD. 7 MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 8 METRAL MOD. P/N 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X78 D SEE NOTE 9 LEAD FREE OPTION 2 2 2 2 2 2 2 2 2 2 2 4 4 4 4 4 CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. MOD. 7 MOD. 8 METRAL MOD. P/N 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 ROW 2 3 4 5 6 88954-X79 3 3 3 3 3 3 3 3 3 3 3 3 3 3 SEE NOTE 9 LEAD FREE С | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | OPTION

MOD. 5

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

MOD. 6

MOD. 7

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MOD. 8

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MOD. 3

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CONTACT CODE

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2 3 MOD. 2 MOD. MOD. 4 MOD. 5 MOD. 6 MOD. 7 MOD. 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 3 MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. MOD. 7 MOD. 8 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 9 10 11 2 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

SEE NOTE LEAD FREE В OPTION CONTACT CODE MOD. 7 MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. 6 MOD. 8 METRAL P/N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 88954-X82 SEE NOTE 9 LEAD FREE

CONTACT CODE MOD. 2 MOD. 3 MOD. 4 MOD. 5 MOD. MOD. 7 MOD. 8 METRAL P/N ROW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 88954-X83 LEAD FREE В 8 8 8 8 8 8 8

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CONTACT CODE

CONTACT CODE

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SEE NOTE LEAD FREE

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PRODUCT NUMBER 88954-XYY 88954-XYYLF

NOTES:

I. FOR DIM A AND B SEE SHEET 2 AND UP.

2. BODY MATERIAL: LIQUID CRYSTAL

POLYMER 30 % GLASS.

FLAME RETARDANT ACC. UL 94-VO.

3. PIN MATERIAL:

PHOSPHOR BRONZE.

4. PLATING ON SOLDER TO BOARD: 88954 - XYY IS SnPb 88954-XYYLF IS SN (LEAD FREE) PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.

5. PRODUCT MARKING: PART NUMBER DESIGNATION & BATCH I.D.

6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF

7. PRODUCT SPECIFICATION GS-12-180 APPLICATION SPECIFICATION BUS-20-074

(8.) THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

(9.) FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 88954-X01LF

IO. ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING (DRAWING NO.)-NI--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-NI---AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND AU CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMIM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

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