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**Part Number:** [0850420086](#)  
**Status:** **Active**  
**Overview:** [din\\_41612](#)  
**Description:** 2.54mm (.100") Pitch DIN 41612 Receptacle, Style C/2, 48 Circuits

**Documents:**  
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family Backplane Connectors  
Series [85042](#)  
Application Daughtercard  
Component Type PCB Receptacle  
Overview [din\\_41612](#)  
Product Name IEC 603-2/DIN 41612  
Style C/2

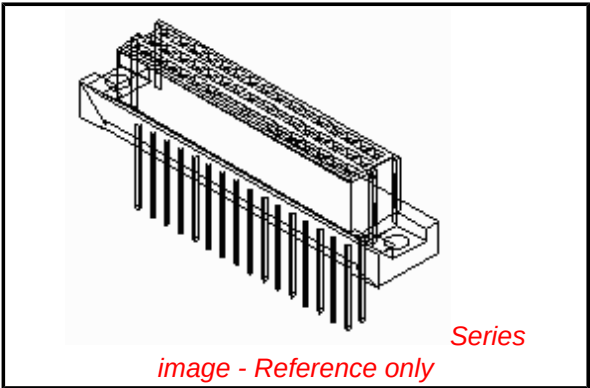
**Physical**

Circuits (Loaded) 48  
Circuits (maximum) 48  
Circuits Detail Rows A, B, & C  
Durability (mating cycles max) 400  
First Mate / Last Break No  
Flammability 94V-0  
Guide to Mating Part No  
Keying to Mating Part Yes  
Number of Columns 24  
Number of Pairs Open Pin Field  
Number of Rows 3  
Orientation Vertical  
PC Tail Length (in) 0.177 In  
PC Tail Length (mm) 4.50 mm  
PCB Locator No  
PCB Retention Yes  
Packaging Type Tray  
Pitch - Mating Interface (in) 0.100 In  
Pitch - Mating Interface (mm) 2.54 mm  
Pitch - Term. Interface (in) 0.100 In  
Pitch - Term. Interface (mm) 2.54 mm  
Polarized to PCB Yes  
Stackable No  
Surface Mount Compatible (SMC) No  
Temperature Range - Operating -55°C to +125°C

**Electrical**

Current - Maximum per Contact 1A  
Data Rate 622.0 Mbps  
Real Signals (per 25mm) 29  
Shielded No  
Voltage - Maximum 250V AC (RMS)

**Material Info**



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**  
**Not Reviewed**

**China RoHS**



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For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**  
[85042Series](#)

**Mates With**  
DIN 41612 Headers [85003](#) , [85013](#)

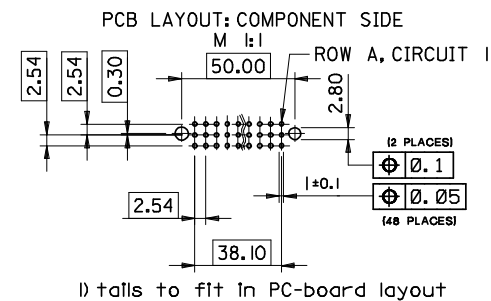
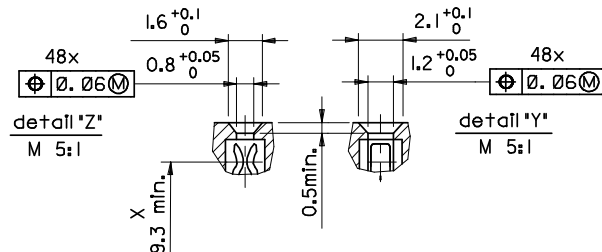
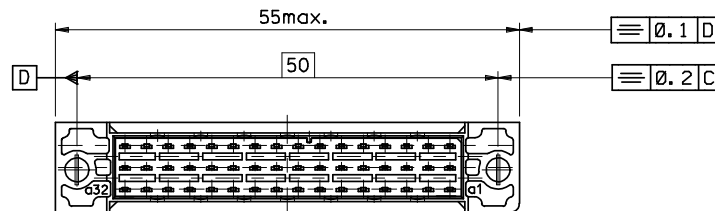
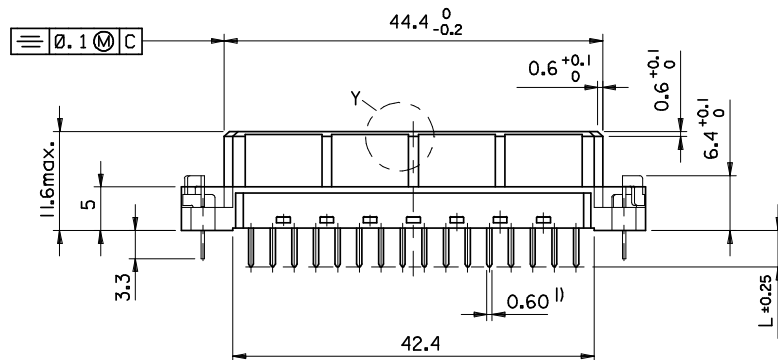
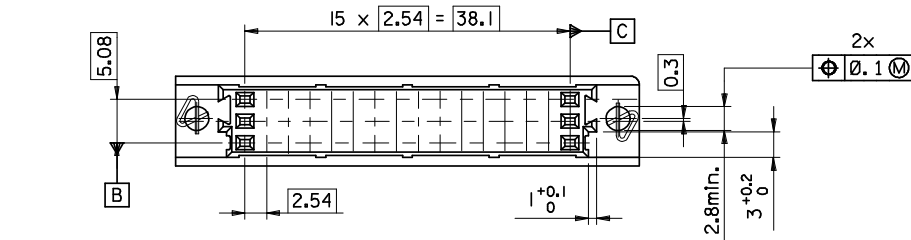
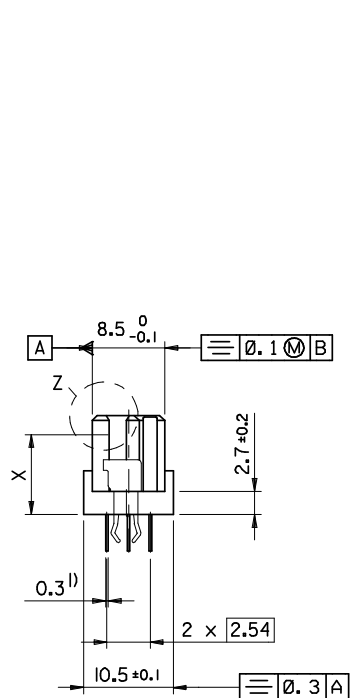
**Reference - Drawing Numbers**

Sales Drawing

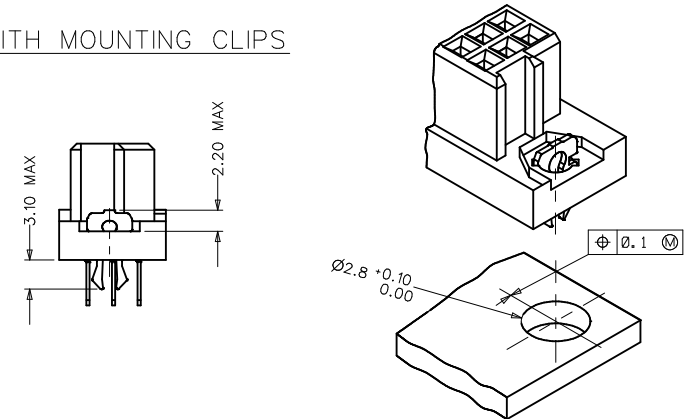
SD-85042-0002, SD-85042-002

This document was generated on 05/17/2010

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| ENTER DESCRIPTION |  | QUALITY SYMBOLS |  | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE |  | SCALE                                                          |  | DESIGN UNITS                                                   |  | THIRD ANGLE PROJECTION   |  |
|-------------------|--|-----------------|--|---------------------------------------|--|-----------------|--|----------------------------------------------------------------|--|----------------------------------------------------------------|--|--------------------------|--|
| REV               |  | DESCRIPTION     |  | mm                                    |  | MM ONLY         |  | ---                                                            |  | METRIC                                                         |  | □                        |  |
| C                 |  | REV             |  | 4 PLACES ±---                         |  | DRAWN BY        |  | DATE                                                           |  | TITLE                                                          |  | 80 POS. FEMALE CONNECTOR |  |
| C                 |  | REV             |  | 3 PLACES ±---                         |  | SUMESH          |  | 2008/08/13                                                     |  | DIN 4162, STYLE C/2                                            |  | DIMENSIONS               |  |
| C                 |  | REV             |  | 2 PLACES ±---                         |  | CHECKED BY      |  | DATE                                                           |  | KPRASAD                                                        |  | 2008/08/13               |  |
| C                 |  | REV             |  | 1 PLACE ±---                          |  | APPROVED BY     |  | DATE                                                           |  | KPRASAD                                                        |  | 2008/08/13               |  |
| C                 |  | REV             |  | ANGULAR ±---                          |  | MATERIAL NO.    |  | DOCUMENT NO.                                                   |  | 850426115                                                      |  | SD-85042-0002            |  |
| C                 |  | REV             |  | DRAFT WHERE APPLICABLE                |  | SIZE            |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX |  | INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | SHEET NO.                |  |
| C                 |  | REV             |  | MUST REMAIN WITHIN DIMENSIONS         |  | A2              |  | 1 OF 1                                                         |  |                                                                |  |                          |  |



- 1) MATERIALS: THERMOPLASTIC POLYESTER, GLASS FILLED,  
UL94V-0. COLOUR: PEBBLE GREY RAL 7032  
TERMINAL - PHOSPHOR BRONZE  
MOUNTING CLIP: STEEL
- 2) FINISH: TERMINAL:-  
CONTACT AREA
  1. PERFORMANCE LEVEL 1: SELECTIVE GOLD (Au), THICKNESS = 1.1 MICROMETER  
OVER NICKEL, THICKNESS = 1.5 MICROMETER
  2. PERFORMANCE LEVEL 2: SELECTIVE GOLD (Au), THICKNESS = 0.6 MICROMETER  
OVER NICKEL, THICKNESS = 1.5 MICROMETER
  3. PERFORMANCE LEVEL 3: SELECTIVE GOLD (Au), THICKNESS = 0.3 MICROMETER  
OVER NICKEL, THICKNESS = 1.5 MICROMETERTERMINATION AREA:  
SELECTIVE TIN, THICKNESS = 5 MICROMETER  
OVER NICKEL, THICKNESS = 1.5 MICROMETER OVERALL
- 3) MOUNTING CLIP:-  
TIN (Sn), THICKNESS = 5-10 MICROMETER,  
OVER NICKEL (Ni), THICKNESS = 2.5 MICROMETER
- 4) FOR NON MOUNTING CLIP OPTION, CONNECTOR TO BE SECURED WITH  
RIVETS: 2 TUBULAR RIVETS 2.5 x 0.3 ... DIN 7340  
SCREWS: 2 CHEESEHEAD SCREWS M2.5 x .... DIN 84 AND 2 HEXAGONAL NUTS M2.5 DIN 934
- 5) MATERIAL No, BATCH CODE, UL AND CSA MARKING TO BE PRINTED ON THE CONNECTOR.
- 6) CUT FACES OF TIP WITHOUT PLATING PERMITTED.
- 7) PRODUCT SPECIFICATION PS-85042-0001

RoHS COMPLIANT

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                      |                                                                                                                                                                   |                                                                                                                                                                    |                                                                                       |                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>ENTER DESCRIPTION</b><br>EC NO: 12010-0293<br>DFDWNRQJMAR 2009/12/01<br>CH1CK4DPRASAO 2010/03/17<br>APPR:KPRASAO 2010/03/17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>QUALITY SYMBOLS</b><br>▽=0<br>▽=0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b><br>mm INCH<br>4 PLACES +---+---+<br>3 PLACES +0.005+---+<br>2 PLACES +0.1+---+<br>1 PLACE +0.15+---+<br>ANGULAR ± 2° | <b>DIMENSION STYLE</b><br><b>MM ONLY</b><br>DRAWN BY DATE<br>SHANKAR 2006/04/25<br>CHECKED BY DATE<br>SSUDHIR 2006/04/25<br>APPROVED BY DATE<br>SSUDHIR 2006/04/25 | <b>SCALE</b><br>1:1<br><b>DESIGN UNITS</b><br>METRIC<br><b>THIRD ANGLE PROJECTION</b> | <b>TITLE</b><br>ASSY DIN41612 C/2 FEMALE<br>48 POS 1.0MM PCB DIA |
| <b>REVISION</b><br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99<br>100<br>101<br>102<br>103<br>104<br>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177<br>178<br>179<br>180<br>181<br>182<br>183<br>184<br>185<br>186<br>187<br>188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200<br>201<br>202<br>203<br>204<br>205<br>206<br>207<br>208<br>209<br>210<br>211<br>212<br>213<br>214<br>215<br>216<br>217<br>218<br>219<br>220<br>221<br>222<br>223<br>224<br>225<br>226<br>227<br>228<br>229<br>230<br>231<br>232<br>233<br>234<br>235<br>236<br>237<br>238<br>239<br>240<br>241<br>242<br>243<br>244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294<br>295<br>296<br>297<br>298<br>299<br>300<br>301<br>302<br>303<br>304<br>305<br>306<br>307<br>308<br>309<br>310<br>311<br>312<br>313<br>314<br>315<br>316<br>317<br>318<br>319<br>320<br>321<br>322<br>323<br>324<br>325<br>326<br>327<br>328<br>329<br>330<br>331<br>332<br>333<br>334<br>335<br>336<br>337<br>338<br>339<br>340<br>341<br>342<br>343<br>344<br>345<br>346<br>347<br>348<br>349<br>350<br>351<br>352<br>353<br>354<br>355<br>356<br>357<br>358<br>359<br>360<br>361<br>362<br>363<br>364<br>365<br>366<br>367<br>368<br>369<br>370<br>371<br>372<br>373<br>374<br>375<br>376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412<br>413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435<br>436<br>437<br>438<br>439<br>440<br>441<br>442<br>443<br>444<br>445<br>446<br>447<br>448<br>449<br>450<br>451<br>452<br>453<br>454<br>455<br>456<br>457<br>458<br>459<br>460<br>461<br>462<br>463<br>464<br>465<br>46 |  |                                      |                                                                                                                                                                   |                                                                                                                                                                    |                                                                                       |                                                                  |

|   | 20          | 19           | 18         | 17      | 16                   | 15         | 14            | 13         | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|-------------|--------------|------------|---------|----------------------|------------|---------------|------------|----|----|----|---|---|---|---|---|---|---|---|---|
| M | MATERIAL No | MOLEX ENG No | PERF LEVEL | PLATING | CONTACT SEQUENCE/ROW | DIM "L" mm | MOUNTING CLIP | FLUX PROOF |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850424294   | 85042-4294   | 2          | Au+Ni   | 1,2,3....16 a+b+c    | 2.9        | YES           | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850429025   | 85042-9025   | 2          | Au+Ni   | 1,2,3....16 a+b+c    | 4.5        | YES           | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850420048   | 85042-0048   | 2          | Au+Ni   | 1,2,3....16 a+c      | 4.5        | NO            | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
| L | 850420086   | 85042-0086   | 2          | Au+Ni   | 1,2,3....16 a+b+c    | 4.5        | NO            | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850421184   | 85042-1184   | 1          | Au+Ni   | 1,2,3....16 a+b+c    | 2.9        | NO            | YES        |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850421330   | 85042-1330   | 1          | Au+Ni   | 1,2,3....16 a+b+c    | 4.5        | NO            | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850424268   | 85042-4268   | 2          | Au+Ni   | 1,2,3....16 a+b+c    | 2.9        | NO            | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850424282   | 85042-4282   | 2          | Au+Ni   | 1,2,3....16 a+c      | 2.9        | YES           | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
| K | 850426098   | 85042-6098   | 3          | Au+Ni   | 1,2,3....16 a+b+c    | 2.9        | NO            | NO         |    |    |    |   |   |   |   |   |   |   |   |   |
|   | 850429022   | 85042-9022   | 2          | Au+Ni   | 1,2,3....16 a+c      | 2.9        | YES           | NO         |    |    |    |   |   |   |   |   |   |   |   |   |

View on mating side

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| d |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| o | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

View on mating side

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| d |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| o | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

RoHS COMPLIANT

|                                                                                                                         |                               |                                       |       |                            |                                                            |                                                                                                                                  |                                                           |                        |                     |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|-------|----------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------|---------------------|
| ENTER DESCRIPTION<br>EC NO: 12010-0293<br>DRAWN BY: DRMNKRUMAR<br>CHKD BY: CHKD KPRASAD<br>APPRD BY: APPR KPRASAD<br>B1 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY |                                                            | SCALE<br>---                                                                                                                     | DESIGN UNITS<br>METRIC                                    | THIRD ANGLE PROJECTION |                     |
|                                                                                                                         |                               | 4 PLACES                              | ±---- | ±----                      | DRAWN BY<br>SHANKAR                                        | DATE<br>2006/04/25                                                                                                               | TITLE<br>ASSY DIN41612 C/2 FEMALE<br>48 POS 1.0MM PCB DIA |                        |                     |
|                                                                                                                         |                               | 3 PLACES                              | ±---- | ±----                      | CHECKED BY<br>SSUDHIR                                      | DATE<br>2006/04/25                                                                                                               | MATERIAL NO.<br>SD-85042-002                              |                        |                     |
|                                                                                                                         |                               | 2 PLACES                              | ±---- | ±----                      | APPROVED BY<br>SSUDHIR                                     | DATE<br>2006/04/25                                                                                                               | DOCUMENT NO.<br>SD-85042-002                              |                        |                     |
|                                                                                                                         |                               | 1 PLACE                               | ±---- | ±----                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SIZE<br>A 1                                               |                        | SHEET NO.<br>2 OF 2 |
| SEE CHART                                                                                                               |                               |                                       |       |                            |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                           |                        |                     |

## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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