

Materials Declaration

| | |
|------------------|----------------------|
| Package | MQFP |
| Body Size | 32 X 32 X 3.5 (+2.6) |
| LeadCount | 240 |
| Option | Pb Free |

Molding Compound

| Item | % of Compound | Weight (g) | PPM |
|------------------------|---------------|------------|--------|
| Silica fused | 81.00 | 4.93 E+00 | 668918 |
| Epoxy Cresol Novolac | 9.50 | 5.79 E-01 | 78453 |
| Phenol Novolac | 6.00 | 3.65 E-01 | 49550 |
| Brominated Epoxy resin | 1.60 | 9.74 E-02 | 13213 |
| Antimony trioxide | 1.50 | 9.13 E-02 | 12387 |
| Carbon black | 0.40 | 2.44 E-02 | 3303 |

Leadframe

| Item | % of Leadframe | Weight (g) | PPM |
|------|----------------|------------|--------|
| Cu | 95.90 | 1.00 E+00 | 136097 |
| Ni | 3.20 | 3.35 E-02 | 4541 |
| Si | 0.73 | 7.59 E-03 | 1029 |
| Mg | 0.18 | 1.83 E-03 | 248 |

Internal Leadframe Plating

| Item | % of Plating | Weight (g) | PPM |
|------|--------------|------------|------|
| Ag | 100.0 | 9.60 E-03 | 1302 |

External Leadframe Plating

| Item | % of Plating | Weight (g) | PPM |
|------|--------------|------------|------|
| Sn | 100.0 | 4.05 E-02 | 5493 |

Bond Wires

| Item | % of Wire | Weight (g) | PPM |
|------|-----------|------------|-------|
| Au | 99.99 | 7.73 E-02 | 10485 |

Chip

| Item | % of Chip | Weight (g) | PPM |
|------|-----------|------------|-------|
| Si | 100 | 9.94 E-02 | 13481 |

Die Attach

| Item | % of Die Attach | Weight (g) | PPM |
|-------------------------------------|-----------------|------------|------|
| Silver filler | 75.50 | 8.34 E-03 | 1131 |
| Diglycidylether bisphenol-F | 10.50 | 1.16 E-03 | 157 |
| Epoxy resin | 6.00 | 6.63 E-04 | 90 |
| Gamma Butyrolactone | 5.00 | 5.52 E-04 | 75 |
| Mixed aryl allyl glycidyl compound: | 3.00 | 3.31 E-04 | 45 |

Package Totals

| Weight (g) | PPM |
|------------|---------|
| 7.37 E+00 | 1000000 |

Molding Compound

| Item | PPM | Method |
|------|---------------|---------------------------------|
| Pb | None Detected | US EPA 3052, ICP-OES |
| Cd | None Detected | US EPA 3052, ICP-OES |
| Hg | None Detected | US EPA 3052, ICP-OES |
| Cr+6 | None Detected | US EPA 3060A & 7196A, UV-VIS |
| PBB | None Detected | Analysis was performed by GC/MS |
| PBDE | None Detected | Analysis was performed by GC/MS |

Die Attach Paste

| Item | PPM | Method |
|------|---------------|---------------------------------|
| Pb | 3 | US EPA 3052, ICP-OES |
| Cd | None Detected | US EPA 3052, ICP-OES |
| Hg | None Detected | US EPA 3052, ICP-OES |
| Cr+6 | None Detected | US EPA 3060A & 7196A, UV-VIS |
| PBB | None Detected | Analysis was performed by GC/MS |
| PBDE | None Detected | Analysis was performed by GC/MS |

Note: The information provided in this declaration are true to the best of ADI's knowledge
ADI derived most of the information listed in this declaration from documents provided by third parties, and assumes no liability to any inaccuracy of such information.



ADI Proprietary

Materials Declaration

| | |
|------------------|----------------------|
| Package | MQFP |
| Body Size | 32 X 32 X 3.5 (+2.6) |
| LeadCount | 240 |
| Option | SnPb |

| Molding Compound | | | |
|------------------------|---------------|------------|--------|
| Item | % of Compound | Weight (g) | PPM |
| Silica fused | 75.0 | 4.57 E+00 | 636181 |
| Epoxy Cresol Novolac | 10.0 | 6.09 E-01 | 84824 |
| Phenol Novolac | 6.5 | 3.96 E-01 | 55136 |
| Antimony trioxide | 3.0 | 1.83 E-01 | 25447 |
| Brominated Epoxy Resin | 2.0 | 1.22 E-01 | 16965 |
| Carbon Black | 0.3 | 1.83 E-02 | 2545 |

| Leadframe | | | |
|-----------|----------------|------------|--------|
| Item | % of Leadframe | Weight (g) | PPM |
| Cu | 99.28 | 1.04 E+00 | 144718 |
| Cr | 0.22 | 2.30 E-03 | 321 |
| Sn | 0.25 | 2.62 E-03 | 364 |
| Zn | 0.25 | 2.62 E-03 | 364 |

| Internal Leadframe Plating | | | |
|----------------------------|--------------|------------|------|
| Item | % of Plating | Weight (g) | PPM |
| Ag | 100.0 | 9.60 E-03 | 1338 |

| External Leadframe Plating | | | |
|----------------------------|--------------|------------|------|
| Item | % of Plating | Weight (g) | PPM |
| Sn | 85.0 | 3.44 E-02 | 4796 |
| Pb | 15.0 | 6.08 E-03 | 846 |

| Bond Wires | | | |
|------------|-----------|------------|-------|
| Item | % of Wire | Weight (g) | PPM |
| Au | 99.99 | 7.73 E-02 | 10770 |

| Chip | | | |
|------|-----------|------------|-------|
| Item | % of Chip | Weight (g) | PPM |
| Si | 100 | 9.94 E-02 | 13847 |

| Die Attach | | | |
|-------------------------|-----------------|------------|------|
| Item | % of Die Attach | Weight (g) | PPM |
| Ag Filler | 75.0 | 8.29 E-03 | 1154 |
| Resin | 20.0 | 2.21 E-03 | 308 |
| Curing agent & hardener | 5.0 | 5.52 E-04 | 77 |

| Package Totals | | |
|----------------|---------|--|
| Weight (g) | PPM | |
| 7.18 E+00 | 1000000 | |

| Molding Compound | | |
|------------------|---------------|---|
| Item | PPM | Method |
| Pb | None Detected | US EPA 3050B, ICP-AES |
| Cd | None Detected | BS EN1122:2001 Method B, ICP-AES |
| Hg | None Detected | US EPA 3052, ICP-AES |
| Cr+6 | None Detected | US EPA 3060A & 7196A |
| PBB | None Detected | Analysis was performed by GC/ECDMS or HPLC/DAD/MS |
| PBDE | None Detected | Analysis was performed by GC/ECDMS or HPLC/DAD/MS |

| Die Attach Paste | | |
|------------------|---------------|--|
| Item | PPM | Method |
| Pb | None Detected | US EPA 3050B, ICP-AES |
| Cd | None Detected | US EPA 3050B, ICP-AES |
| Hg | None Detected | US EPA 3052, ICP-AES |
| Cr+6 | None Detected | EPA 3060A, UV-VIS |
| PBB | None Detected | USEPA 3450C, Analysis performed by GC/MS |
| PBDE | None Detected | USEPA 3450C, Analysis performed by GC/MS |

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 ADI derived most of the information listed in this declaration from documents provided by third parties, and assumes no liability
 any inaccuracy of such information.



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