

TAPE AND REEL INFORMATION

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE


*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|--------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| F28384DPTPQR | HLQFP | PTP | 176 | 200 | 330.0 | 44.4 | 26.6 | 26.6 | 2.2 | 36.0 | 44.0 | Q2 |
| F28384DZWTQR | NFBGA | ZWT | 337 | 1000 | 330.0 | 24.4 | 16.35 | 16.35 | 2.35 | 20.0 | 24.0 | Q1 |
| F28384SPTPQR | HLQFP | PTP | 176 | 200 | 330.0 | 44.4 | 26.6 | 26.6 | 2.2 | 36.0 | 44.0 | Q2 |
| F28386DPTPQR | HLQFP | PTP | 176 | 200 | 330.0 | 44.4 | 26.6 | 26.6 | 2.2 | 36.0 | 44.0 | Q2 |
| F28386DZWTQR | NFBGA | ZWT | 337 | 1000 | 330.0 | 24.4 | 16.35 | 16.35 | 2.35 | 20.0 | 24.0 | Q1 |
| F28386SPTPQR | HLQFP | PTP | 176 | 200 | 330.0 | 44.4 | 26.6 | 26.6 | 2.2 | 36.0 | 44.0 | Q2 |
| F28388DPTPSR | HLQFP | PTP | 176 | 200 | 330.0 | 44.4 | 26.6 | 26.6 | 2.2 | 36.0 | 44.0 | Q2 |
| F28388DZWTSR | NFBGA | ZWT | 337 | 1000 | 330.0 | 24.4 | 16.35 | 16.35 | 2.35 | 20.0 | 24.0 | Q1 |
| F28388SPTPSR | HLQFP | PTP | 176 | 200 | 330.0 | 44.4 | 26.6 | 26.6 | 2.2 | 36.0 | 44.0 | Q2 |
| F28388SZWTSR | NFBGA | ZWT | 337 | 1000 | 330.0 | 24.4 | 16.35 | 16.35 | 2.35 | 20.0 | 24.0 | Q1 |

TAPE AND REEL BOX DIMENSIONS


*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|--------------|--------------|-----------------|------|------|-------------|------------|-------------|
| F28384DPTPQR | HLQFP | PTP | 176 | 200 | 367.0 | 367.0 | 67.0 |
| F28384DZWTQR | NFBGA | ZWT | 337 | 1000 | 336.6 | 336.6 | 41.3 |
| F28384SPTPQR | HLQFP | PTP | 176 | 200 | 367.0 | 367.0 | 67.0 |
| F28386DPTPQR | HLQFP | PTP | 176 | 200 | 367.0 | 367.0 | 67.0 |
| F28386DZWTQR | NFBGA | ZWT | 337 | 1000 | 336.6 | 336.6 | 41.3 |
| F28386SPTPQR | HLQFP | PTP | 176 | 200 | 367.0 | 367.0 | 67.0 |
| F28388DPTPSR | HLQFP | PTP | 176 | 200 | 367.0 | 367.0 | 67.0 |
| F28388DZWTSR | NFBGA | ZWT | 337 | 1000 | 336.6 | 336.6 | 41.3 |
| F28388SPTPSR | HLQFP | PTP | 176 | 200 | 367.0 | 367.0 | 67.0 |
| F28388SZWTSR | NFBGA | ZWT | 337 | 1000 | 336.6 | 336.6 | 41.3 |

TRAY


Chamfer on Tray corner indicates Pin 1 orientation of packed units.

*All dimensions are nominal

| Device | Package Name | Package Type | Pins | SPQ | Unit array matrix | Max temperature (°C) | L (mm) | W (mm) | K0 (µm) | P1 (mm) | CL (mm) | CW (mm) |
|-------------|--------------|--------------|------|-----|-------------------|----------------------|--------|--------|---------|---------|---------|---------|
| F28384DPTPS | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28384DZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |
| F28384SPTPS | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28384SZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |
| F28386DPTPQ | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28386DPTPS | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28386DZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |
| F28386DZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |
| F28386SPTPS | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28386SZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |
| F28388DPTPS | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28388DZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |
| F28388SPTPS | PTP | HLQFP | 176 | 40 | 4x10 | 150 | 315 | 135.9 | 7620 | 20.7 | 30.4 | 20.7 |
| F28388SZWTS | ZWT | NFBGA | 337 | 90 | 6 X 15 | 150 | 315 | 135.9 | 7620 | 20 | 17.5 | 15.45 |