

FCOL Flip Chip On Leadframe

JCET offers Flip Chip on Leadframe (FCOL) in both SOT and TSOT package configurations. FCOL provides a cost effective option for chip scale packaging for devices with low IO counts from 3 - 8L. JCET offers a full turnkey solution for FCOL from wafer bumping and assembly to final test.

Highlights

- High density SOT & TSOT leadframes
- TSOT FCOL supports multiple lead counts: 3, 5, 6, 8L
- Wafer bumping available at two JCET factories

Features

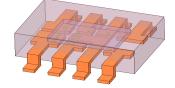
- FCOL package outline sizes of 1.63 x 1.60 x 0.58mm and 2.9 x 2.8 x 0.9mm
- Minimum flip chip bump diameter of 100um
- 15um RDL thickness on bumped die
- Minimum of 150um bumped die thickness
- High thermal solution with high thermal compound

Standard Materials

- 1P1M/2P2M+Solder Ball Die Bump
- Copper + OSP Leadframe
- Compound 45un maximum filler size
- I/O finish
- Sn plating

Applications

- PMIC
- AC-DC / DC-DC
- LNA
- **RF** Switch
- PA
- Power
- Audio







0.58mm-0.90mm

150um minimum

150um minimum

100um/80um/70um

Process Highlights

- Package thickness •
- Die thickness
- Die to package edge
- Bump height
- Bump to lead edge
- Bump to hole
- 30um minimum 50um minimum
- Hole to package edge 125um minimum

Package Level Reliability

- Moisture Sensitivity Level JEDEC Level 1 @ 260 C
 - **Temperature Cycling** -65°C to 150°C, Dwell: 15 min

121°C/100%RH 205 Kpa

Pressure Cooker Test

THT

- 85°C/85% RH
- HTST Ta = 150C

Thermal Performance

Typical thermal resistance is <10C/W, significantly lower than the traditional package which is typically 10-20C/W.

Electrical Performance

- High current applications
- Low RDSON performance
- Dependent on application design



JCET Group Co., Ltd. www.jcetglobal.com

The JCET logo is a registered trademark of JCET Group Co., Ltd. Trademark registered in the People's Republic of China (registration number: 3000529). All other product names and other company names herein are for identification purposes only and may be the trademarks or registered trademarks of their respective owners. This brochure as well as datasheets herein are for presentation purposes only. JCET or its subsidiaries do not warrant or make any representation whatsoever, express, implied or statutory, as to the accuracy, adequacy, reliability, completeness or otherwise. Readers are advised to seek professional advice at all time and obtain independent verification of the information contained herein before making any decision. JCET reserves the right to change the information at any time and without notice

©Copyright 2019. JCET Group Co., Ltd. All rights reserved.