FAST IC SOCKET | OWNER-LED CUSTOM TEST SOCKET WORKSHOP

Custom IC Test Sockets, Burn-In & Second-Source Fixtures

Direct DFM review from package outline drawing (POD) & board Gerber | https://fasticsocket.com | sales@fasticsocket.com

1. FOUR SPECIALIST CUSTOM SOCKET LINES

- **Programming & Continuity Sockets:** Room-temp MCU/Flash/ASIC bring-up & open/short checks; 3D-printed ESD nests reviewed first
- **AI IC Open/Short (OS) Sockets:** High-pin-count BGA/FCBGA/WLCSP fixtures (down to 0.35 mm pitch on review) with floating pressure
- **Burn-In & HTOL Sockets:** CNC-machined PEEK/Torlon housings tailored to your chamber profile, duration & burn-in board (BIB) layout.
- **High-Voltage & High-Current Power:** True 4-wire Kelvin Force/Sense sockets & anti-creepage barriers for TO-247-4L, SiC MOSFETs,

2. PACKAGES, MATERIALS & SECOND-SOURCE DROP-IN COMPATIBILITY

- **Supported Packages:** BGA, FCBGA, LGA, QFN, DFN, WSON, WLCSP / Bare Die, QFP / TQFP / LQFP, SOIC / SOP / TSSOP, TO-247
- **Second-Source Footprint Match:** Match existing test/burn-in board pad arrays & mounting holes without re-spinning your PCB (/second
- **Construction & Materials:** ESD-safe 3D-printed housings (room temp) + CNC PEEK / Torlon housings; crown, cup, chisel & Kelvin prob
- **Indicative Production:** Typically 7-14 business days after drawing approval & deposit, subject to engineering review (small-batch friendly

3. WHAT TO SEND FOR A 1-BUSINESS-DAY DFM REVIEW & QUOTE

- **Required Inputs:** (1) Package outline drawing PDF/STEP; (2) Ball/pin netlist; (3) Target temp/voltage/current; (4) Board Gerber/keep-out
- **Free Online Sizing Calculators:** Actuation Force & Stiffener Estimator (fasticsocket.com/specs#force-estimator) | Keep-Out Builder (#rfc
- **Open 3D STEP Reference Library:** 12 parametric AP214 .STEP models & top-view keep-out blueprints ready at fasticsocket.com/footpr

4. QUICK REFERENCE SPECIFICATION MATRIX (INDICATIVE PRELIMINARY GUIDANCE)

Package Family	Typical Pitch Scope	Preferred Housing Route	Primary Engineering Focus
BGA / FCBGA / LGA	0.35 - 1.27 mm (per POD)	CNC PEEK / Torlon (>=400 pins)	Warpage stroke, lid force & backing plate
QFN / DFN / WSON	0.40 - 0.65 mm	3D-printed (>=0.65) or CNC	Exposed center pad contact & body datum
WLCSP / Bare Die	Fine pitch (per drawing)	Precision CNC guide plate	Die-edge alignment & controlled lid load
TO-247 / SiC / GaN	1.00 - 5.45 mm / module	CNC PEEK / Torlon barriers	4-wire Kelvin Force/Sense & creepage
QFP / SOIC / TSSOP	0.40 - 1.27 mm	3D-printed (bench) or CNC	Gull-wing shoulder/foot compliance

Request a Direct Engineering Review or Second-Source Footprint Check

Submit RFQ / POD files: https://fasticsocket.com/#fast-quote | Email: sales@fasticsocket.com | All limits confirmed per approved drawing