DATASHEET

T-Junction Droplet Microfluidic Chip, PDMS/Glass, 100x50µm Channel, Plasma-Bonded, with PTFE Tubing & Syringe Kit, 75x25mm Slide, for Lab Research (RUO)

T-junction droplet chip with 100 µm-wide × 50 µm-deep channels, RTV615 PDMS plasma-bonded to borosilicate glass. Includes PTFE tubing and syringe. Tight droplet size distributions at low flow rates for lab research (RUO).

APPLICATION

Microfluidics & Life Science

KEY SPECS

- Material: RTV615 PDMS / Borosilicate Glass
- Channel Geometry: T-Junction
- Channel Width: 100 µm
- Channel Depth: 50 µm

1. Specifications

Material	RTV615 PDMS / Borosilicate Glass
Channel Geometry	T-Junction
Channel Width	100 µm
Channel Depth	50 µm
Chip Format	75 × 25 (Slide) mm
Substrate Thickness	1 mm
Port Size	0.7 (22-gauge compatible) mm
Bonding	Oxygen Plasma (Permanent)
Fabrication Tolerance	±5 µm
Operating Pressure	≤ 0.3 MPa

2. Product Details

he T-Junction Droplet Microfluidic Chip uses a classic T-junction geometry with 100 µm-wide × 50 µm-deep channels to generate controlled droplet break-up with tight size distributions. The optimized 50 µm channel depth yields narrower droplet-size distributions at lower flow rates compared to deeper designs. RTV615 PDMS is permanently plasma-bonded to 1 mm borosilicate glass for a leak-free seal and excellent optical clarity. The complete starter kit includes PTFE tubing, blunt needle tips and a syringe; 0.7 mm ports connect to standard microfluidic fittings. Standard 75×25 mm slide format fits common chip holders. Ideal for droplet generation, emulsion studies and multiphase-flow research. **For research use only (RUO). Not for use in diagnostic or therapeutic procedures.**

In stock at Amazon warehouse, ship same day: https://www.amazon.com/dp/B0H6DQBG4G

3. Order / Quote

Model	Pack Size	Availability
LC-DG-700008	1× PDMS/glass chip (75×25 mm), 1× PTFE tubing set, 2× blunt needle tips, 1× syringe, 1× sealed ESD bag with RUO label	In stock (Amazon / US warehouse)

Current pricing and ordering: labcorematerials.com/products/t-junction-droplet-microfluidic-chip/

4. Shipping & Compliance

- Ships as empty microfluidic hardware. No reagents, no biological materials. Not classified as dangerous goods.

Contact

business@labcorematerials.com

www.labcorematerials.com/products/t-junction-droplet-microfluidic-chip/