

A glowing blue microchip is centered on a circuit board. The chip has a grid of small squares on its surface and is surrounded by intricate circuitry. The entire scene is bathed in a blue light, giving it a futuristic and technological appearance.

TPC Semiconductor Market Survey

September/October 2023

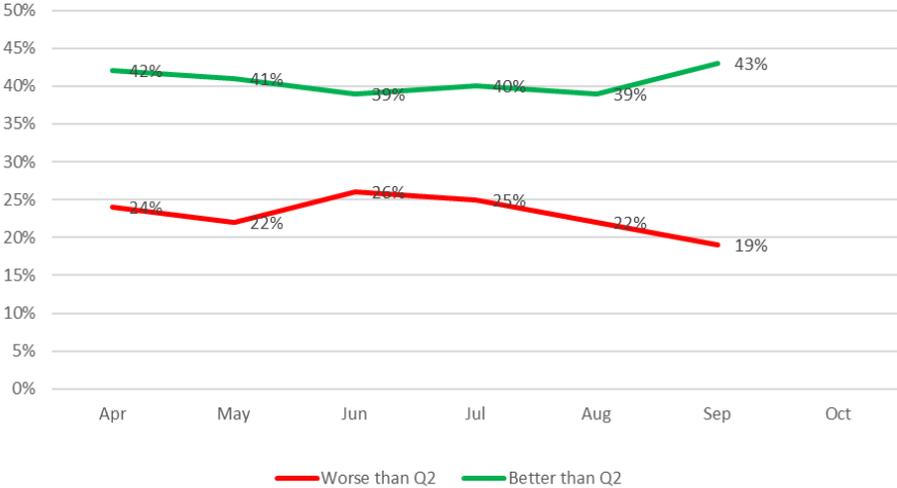
TPC September/October 2023 Survey Summary

*Survey Date: 10/15-18 Respondents: ~9,100 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 40%, Auto 22%, Comm 19%, Computing 19%, Mobile 28%, Data Ctr 18%, Other 15%*

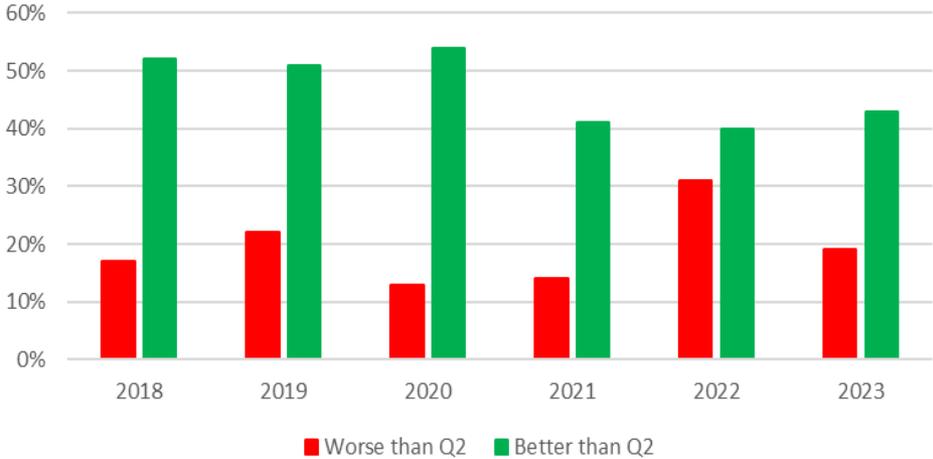
- We recently completed our monthly survey (~9,100 respondents) which saw modest improvements in both C3Q's & C4Q's outlook. The bookings for C3Q & C4Q also showed slight improvements. Inventory levels for high demand parts was little changed. We continue to believe these results is an indication of the supply chain being at the bottom and inventories are beginning to become normalized. We believe we are slowly coming out of the inventory glut, but it will take 2+ quarters to get back to normal and require end demand to also improve.
- The backlog cancellation expectations (slide 7) showed continued sideways movement but remains above the "positive" trend line.
- The survey showed C3Q23 slightly improved vs. last month with 43% seeing the quarter being better than C2Q compared to 39% previously; while 19% see it as worse vs. 22% last month.
- The survey showed C4Q23 also improved vs. last month with 17% seeing the quarter being better than C3Q compared to 16% previously; while 41% see it as worse vs. 44% last month.
- Key product inventory and availability (slide 8) remained roughly the same across all key products and remains at nominal levels.
- Both C3Q and C4Q inventory growth outlook trend (slide 9) showed net inventories improving vs. last month.
- Pricing trends (slide 10) for both C3Q and C4Q was worse vs. last month's survey. Again, we think this is indicative of excess inventory and some suppliers lowering pricing to encourage customers to take product.

C3Q23 Outlook

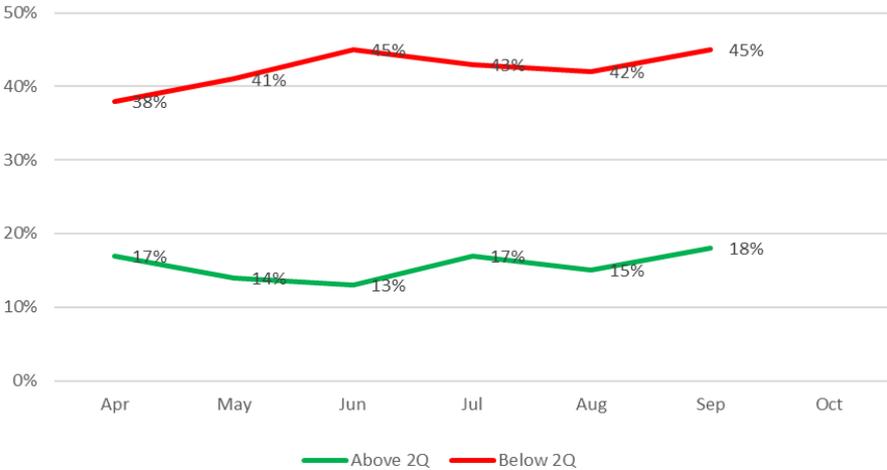
C3Q23 Growth Expectations



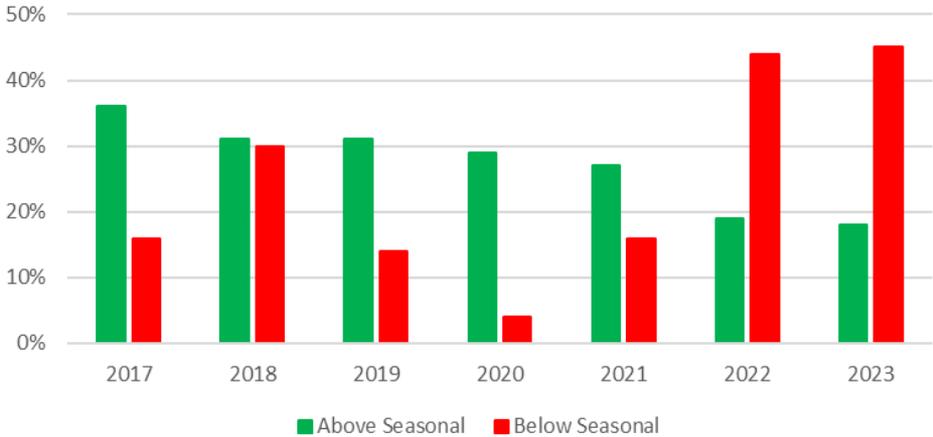
C3Q Growth Expectations vs. C2Q



3Q23 Seasonality Expectations

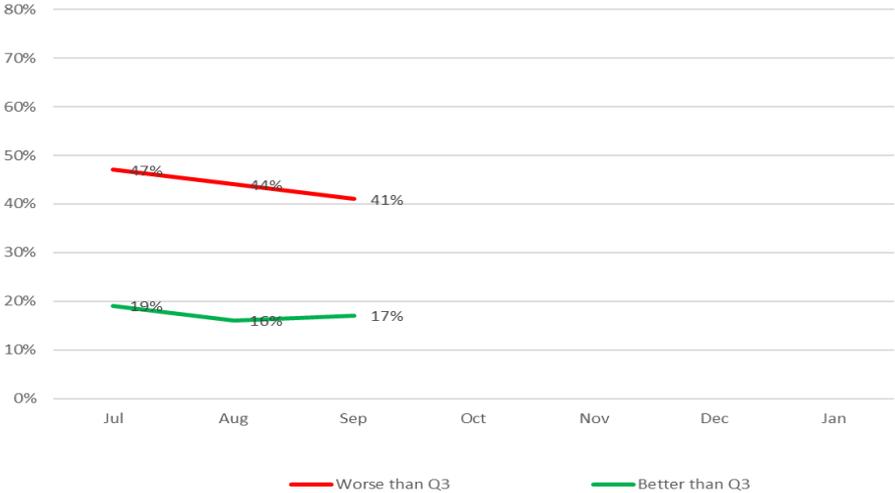


C3Q Seasonality Expectations

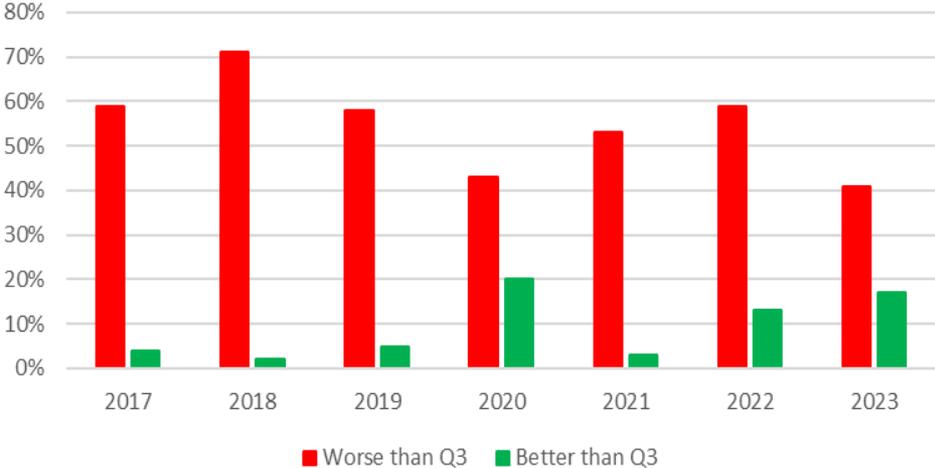


C4Q23 Outlook

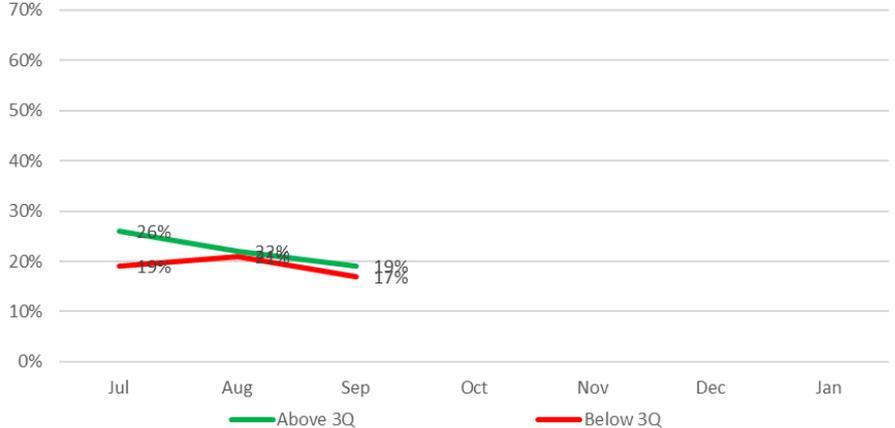
4Q23 Growth Expectations



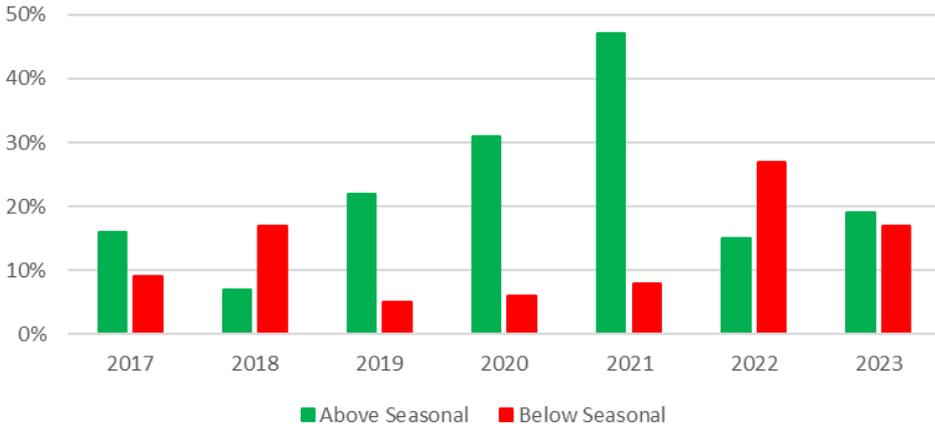
C4Q Growth Expectations



4Q23 Seasonality Expectations

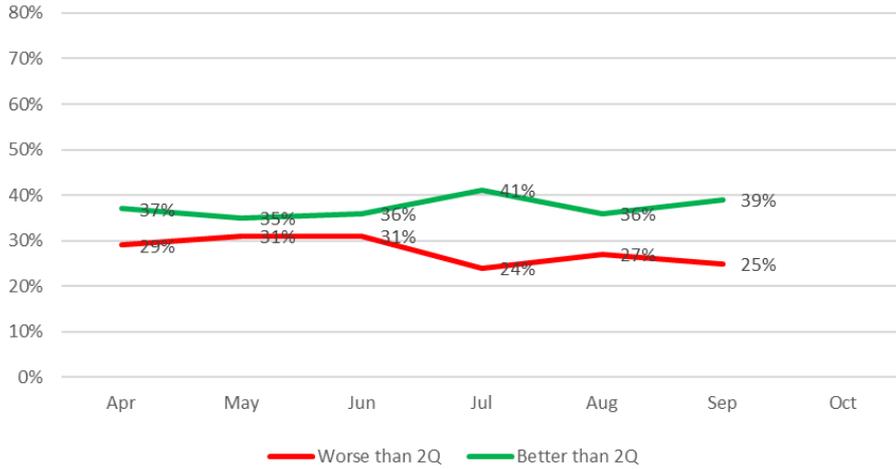


C4Q Seasonality Expectations

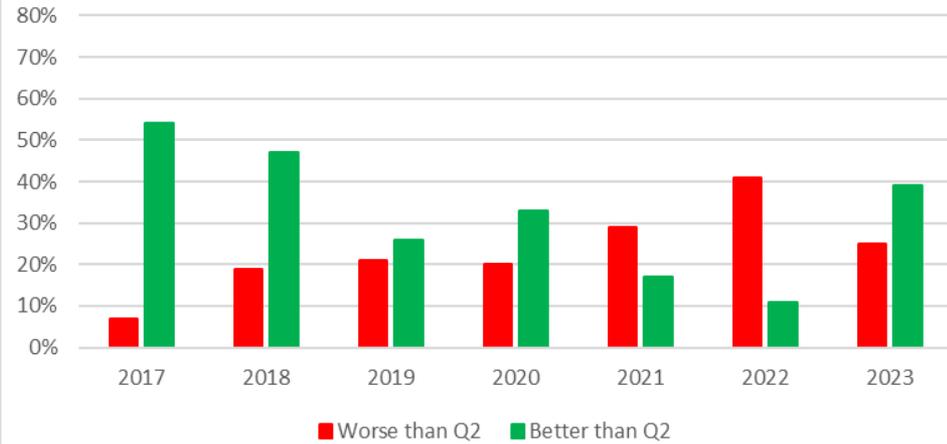


Bookings Outlook

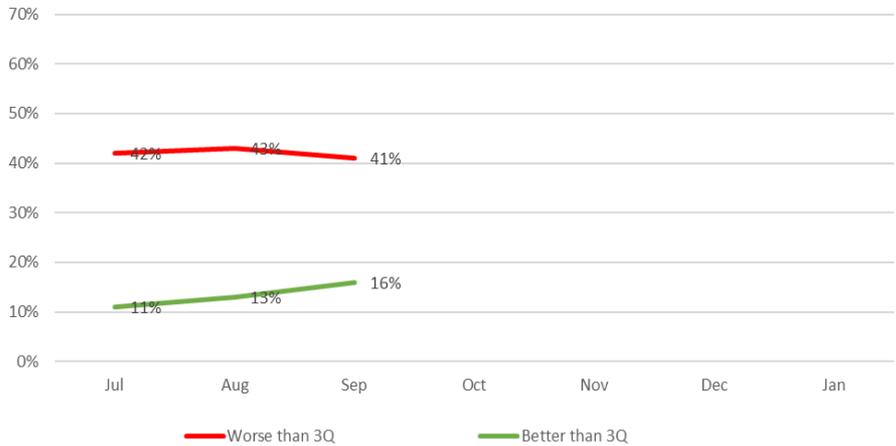
C3Q23 Bookings Expectations



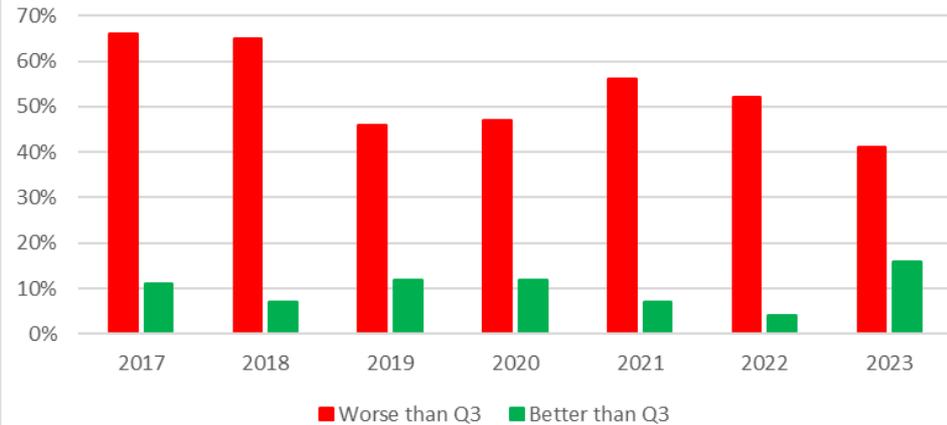
C3Q Bookings Expectations



4Q23 Bookings Expectations

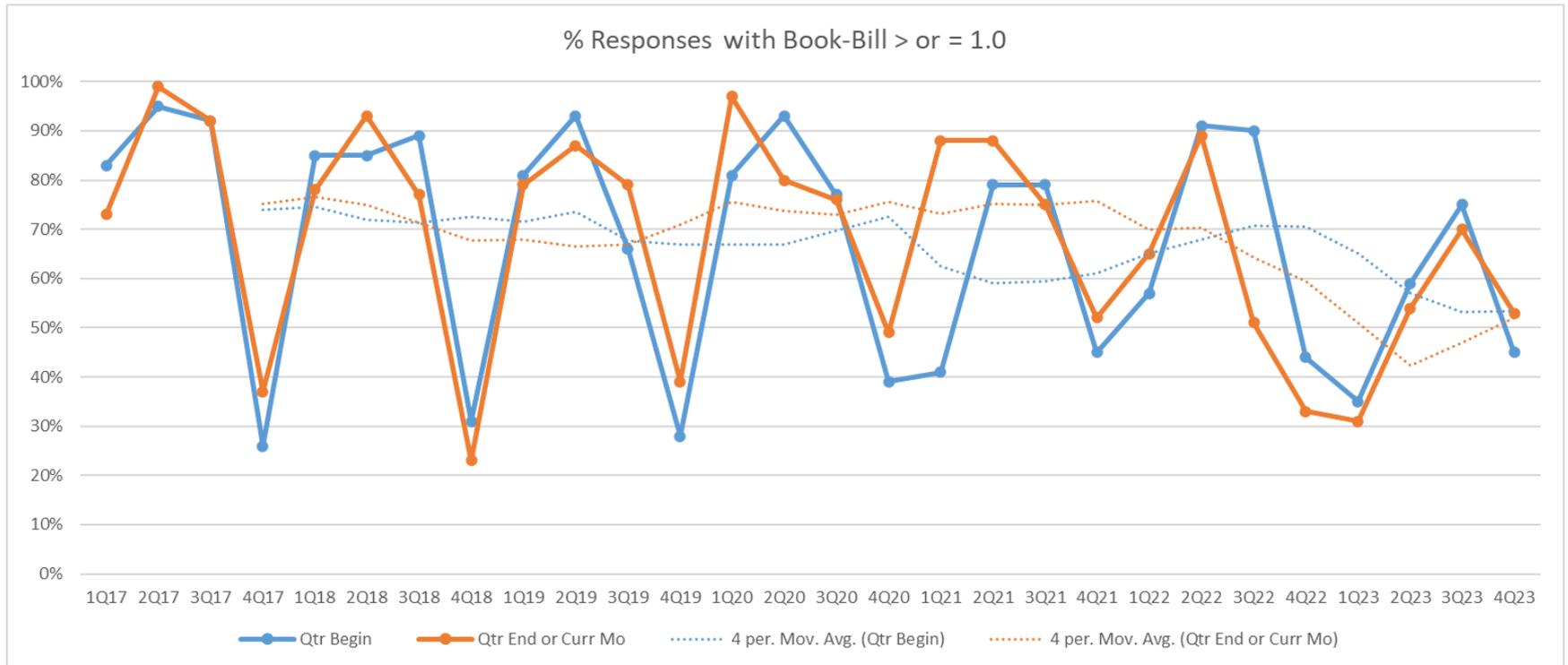


C4Q Bookings Expectations



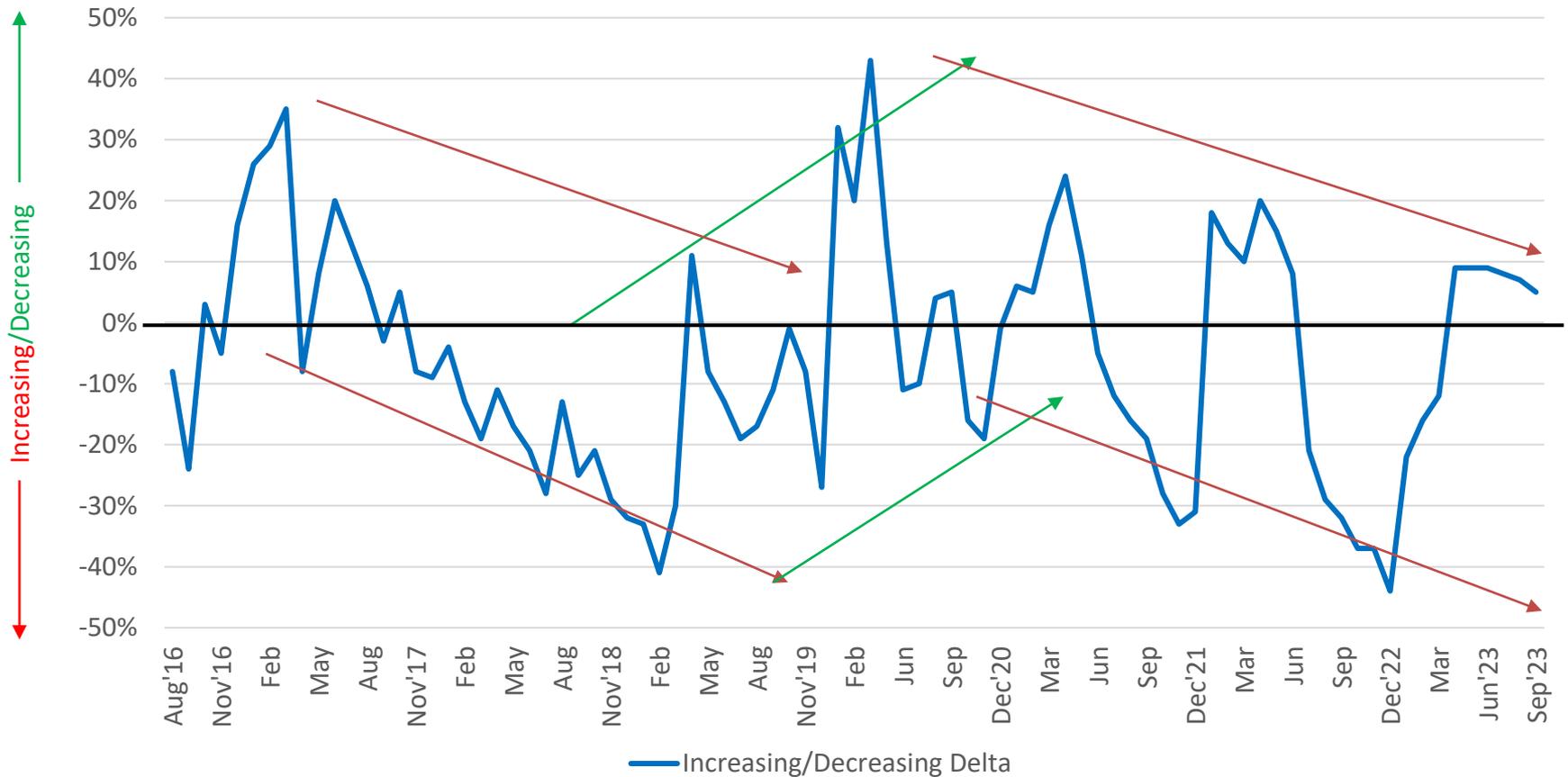
Book to Bill History & Trends

(Calendar quarters)



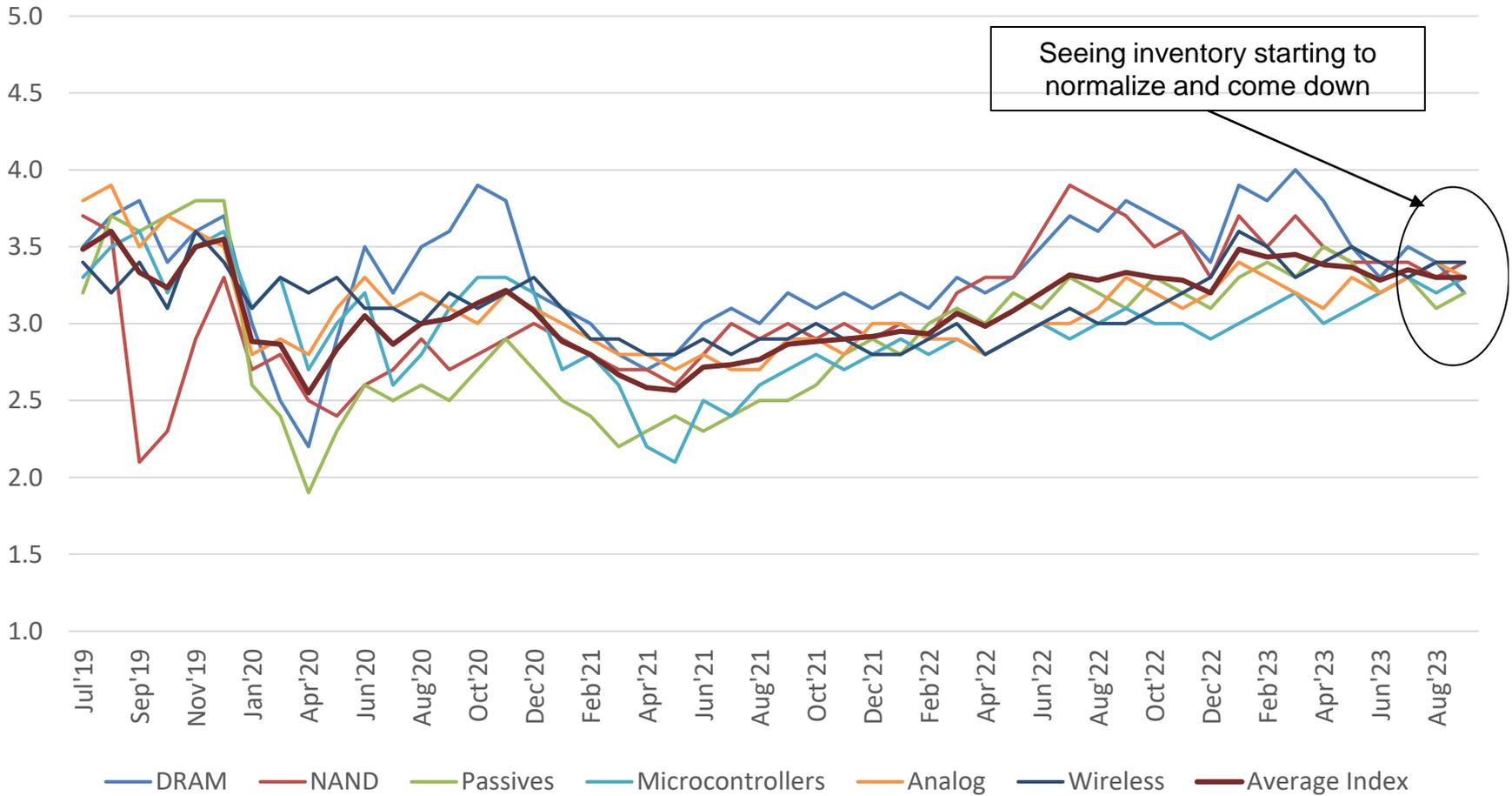
Backlog Order Push Outs/Cancellations vs. 30 Days Ago

(Delta between increasing and decreasing cancellations – Higher % is more positive)



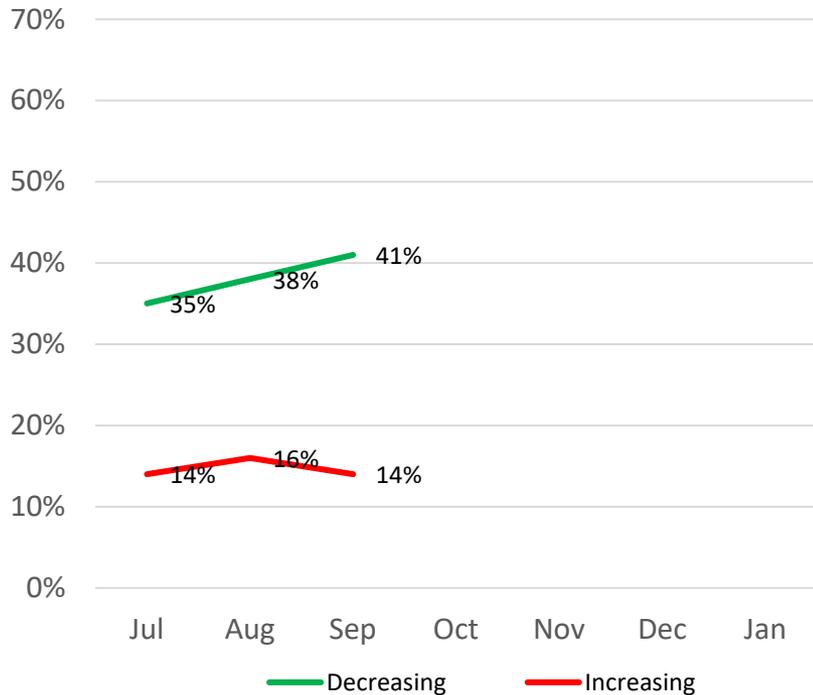
Inventory Status

(Using a scale of 1 to 5 with 1 being extremely low inventory, 3 being the normal amount, and 5 being extremely high; how do you view inventory levels for the following products?)

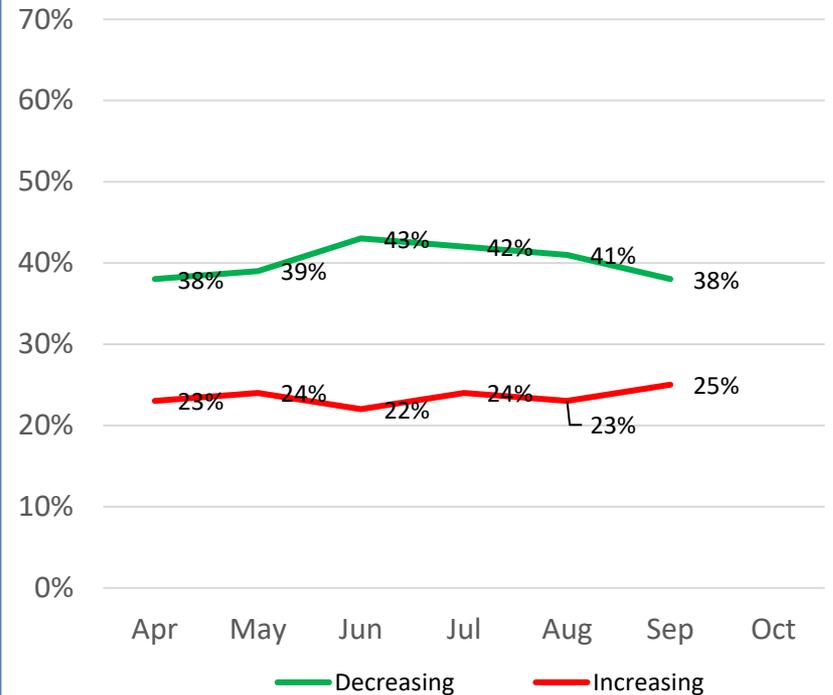


Q/Q Inventory Growth

C4Q23 Inventories vs. C3Q23

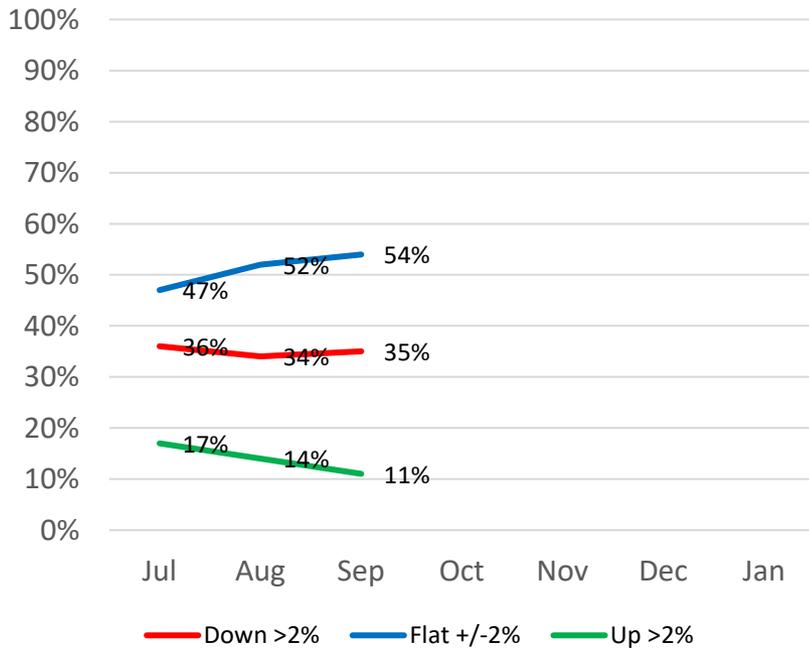


C3Q23 Inventories vs. C2Q23

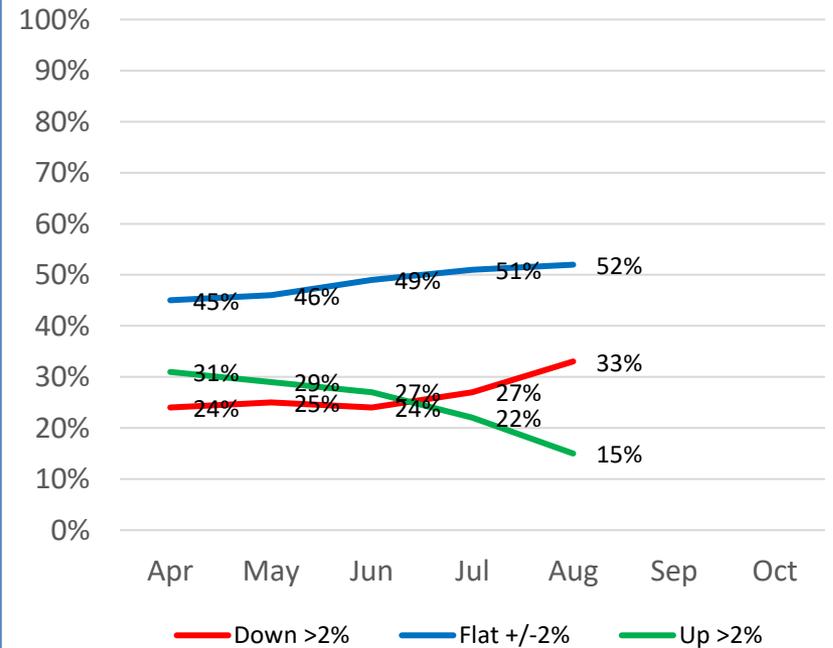


Q/Q Pricing Trends

C4Q23 Pricing vs. C3Q23



C3Q23 Pricing vs. C2Q23



Vertical Outlook

