

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

August/September 2023

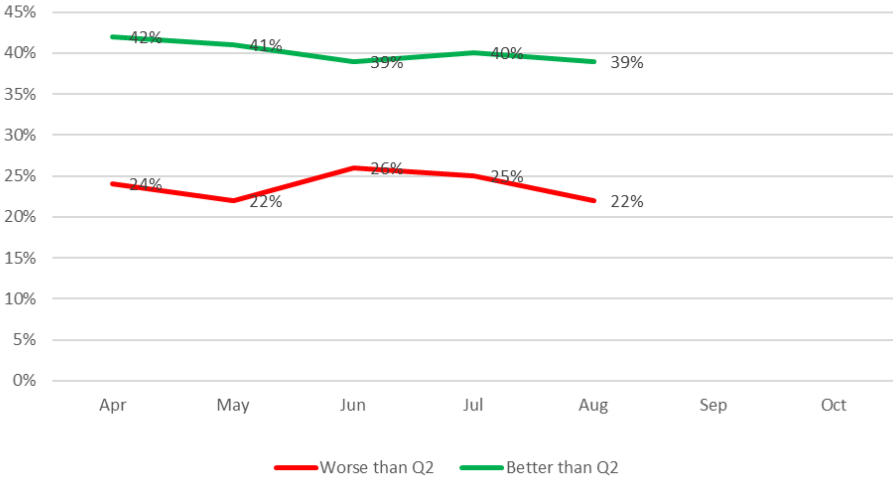
TPC July/August 2023 Survey Summary

*Survey Date: 9/8-10 Respondents: ~6,800 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 43%, Auto 18%, Comm 22%, Computing 19%, Mobile 23%, Data Ctr 21%, Other 22%*

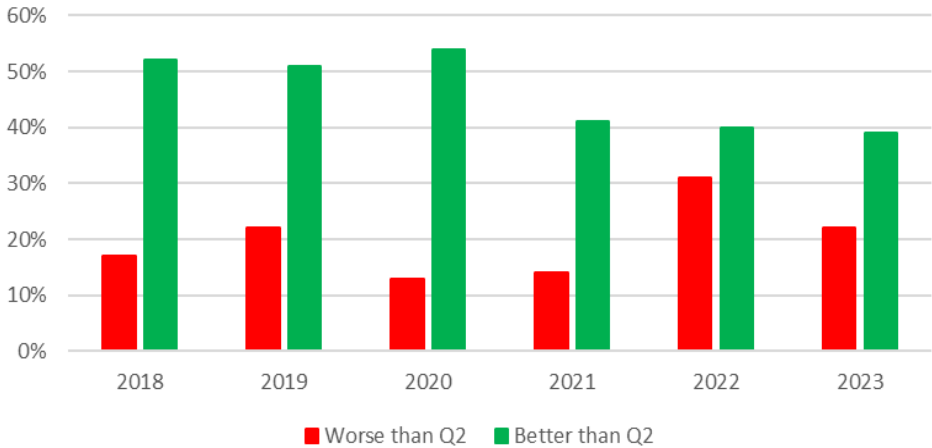
- We recently completed our monthly survey (~6,800 respondents) which saw very few changes in both C3Q's & C4Q's outlook. The bookings for C3Q showed slight weakening while C4Q bookings outlook remained generally steady. One bright spot is inventory levels for high demand parts coming down. We continue to believe these results is an indication of the supply chain being at the bottom but inventories still being too high and end customers attempting to bring them under control. We believe this will take them 2+ quarters to accomplish this as end demand remains anemic.
- The backlog cancellation expectations (slide 7) showed continued sideways movement but remains above the "positive" trend line.
- The survey showed C3Q23 remained roughly the same vs. last month with 39% seeing the quarter being better vs. 40% previously; while 22% see it as worse vs. 25% last month.
- The survey showed C4Q23 also roughly the same vs. last month with 16% seeing the quarter being better vs. 19% previously; while 44% see it as worse vs. 47% last month.
- Key product inventory and availability (slide 8) improved slightly across all key products and are now at nominal levels.
- Both C3Q and C4Q inventory growth outlook trend (slide 9) showed net inventories remaining the same vs. last month.
- Pricing trends (slide 11) 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

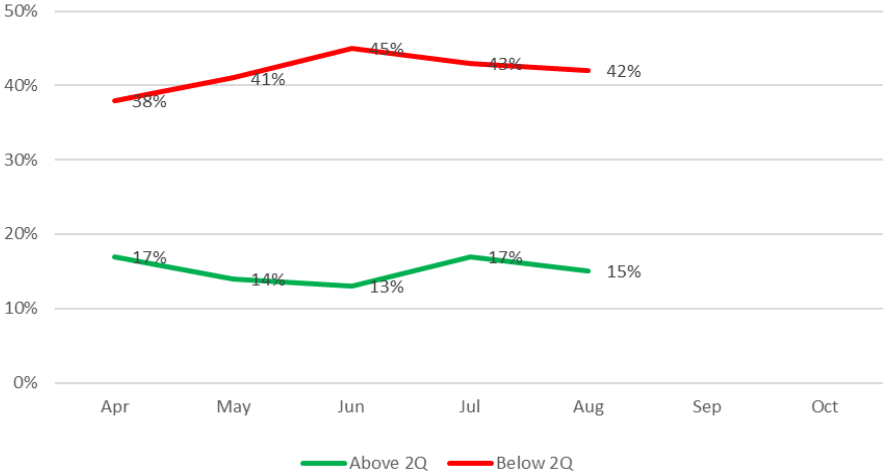
C3Q23 Growth Expectations



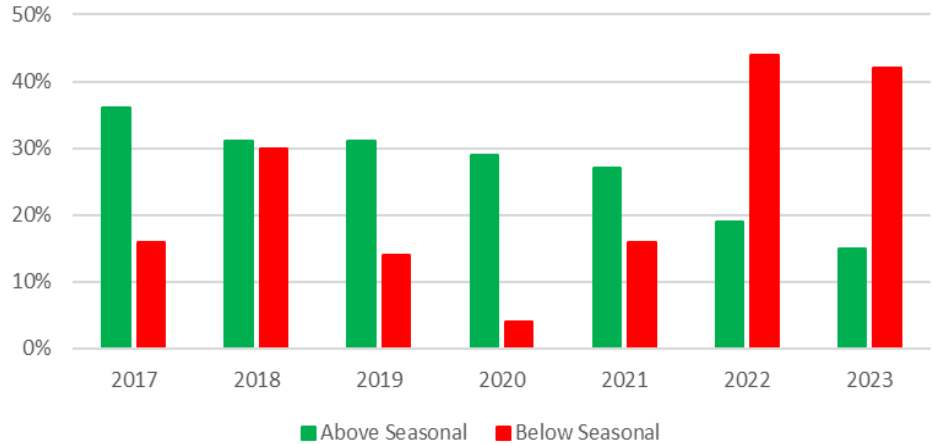
C3Q Growth Expectations vs. C2Q



3Q23 Seasonality Expectations

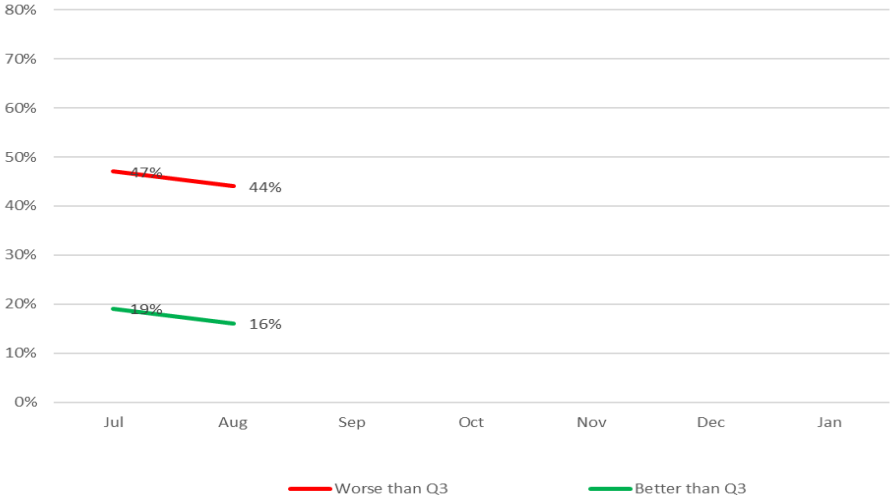


C3Q Seasonality Expectations

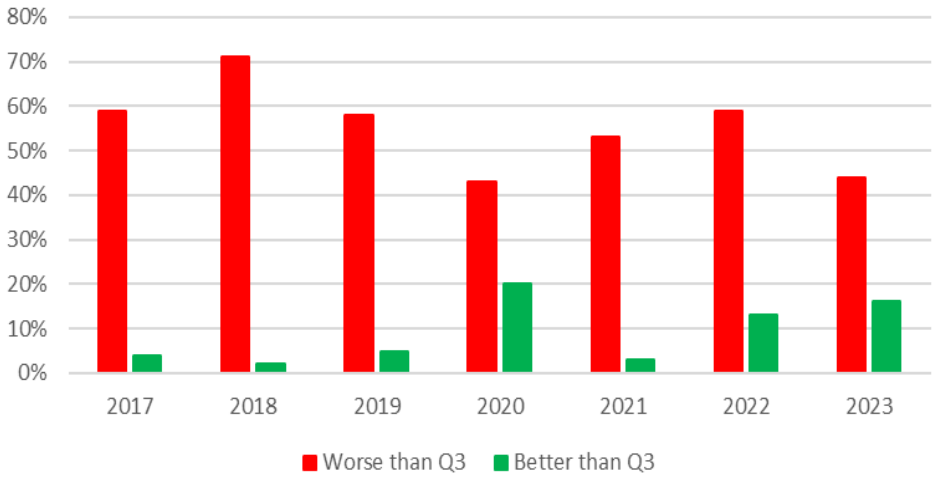


C4Q23 Outlook

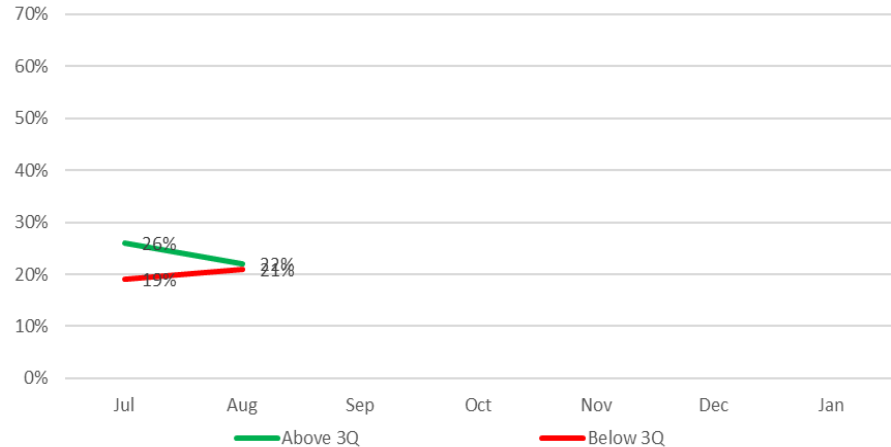
4Q23 Growth Expectations



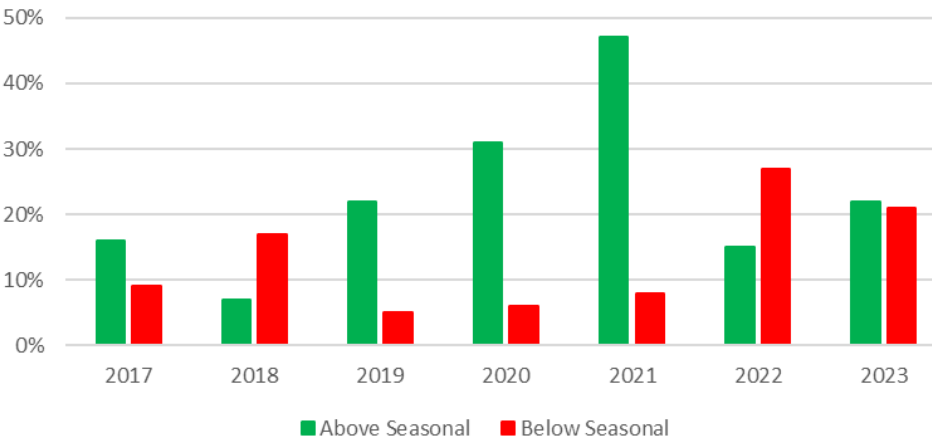
C4Q Growth Expectations



4Q23 Seasonality Expectations

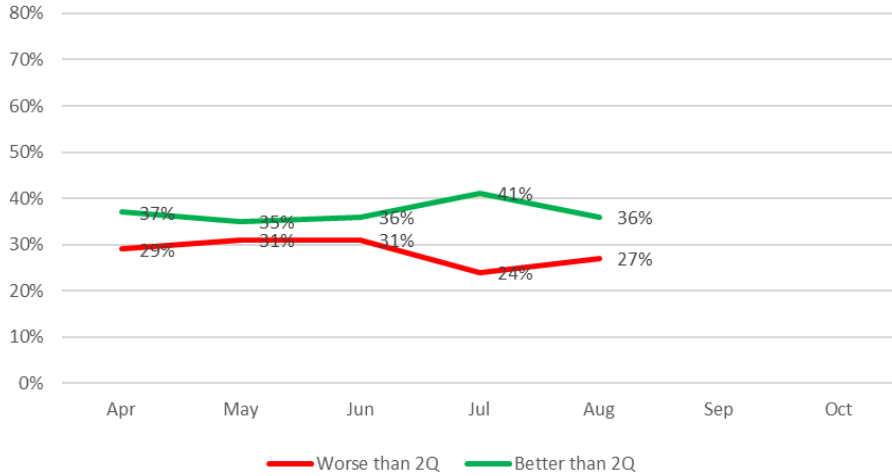


C4Q Seasonality Expectations

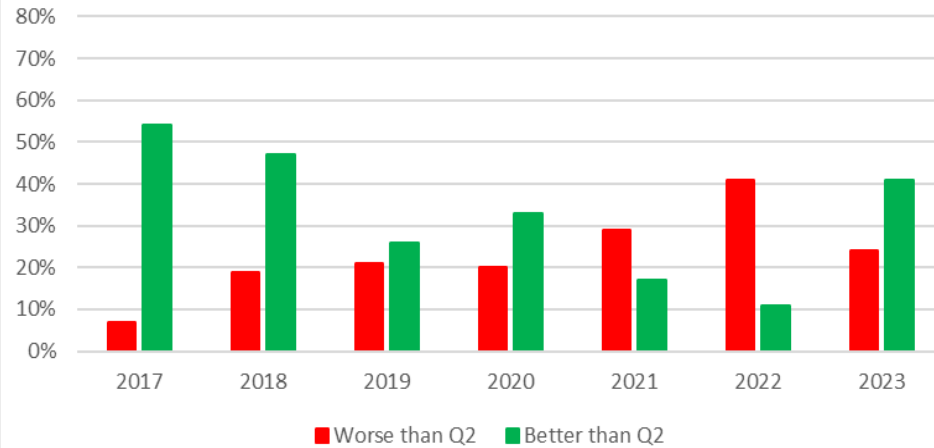


Bookings Outlook

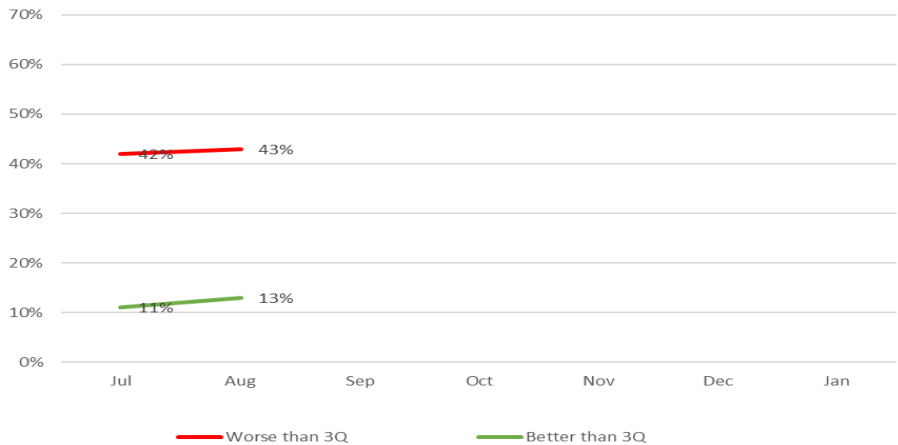
C3Q23 Bookings Expectations



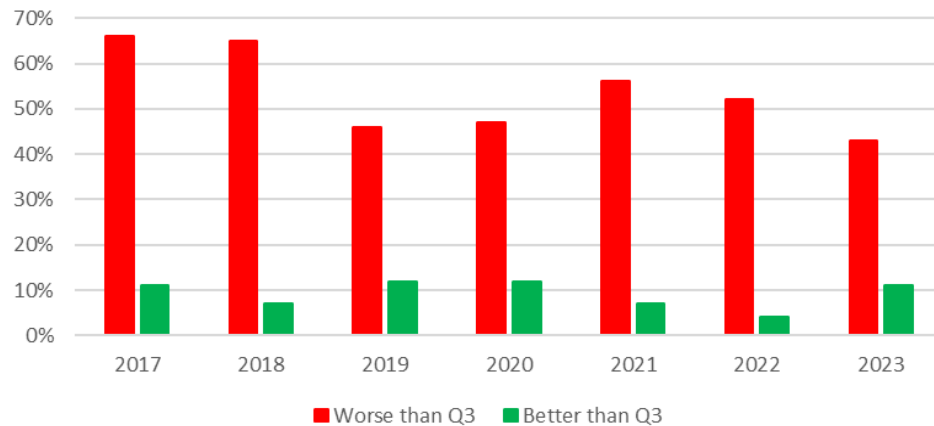
C3Q Bookings Expectations



4Q23 Bookings Expectations

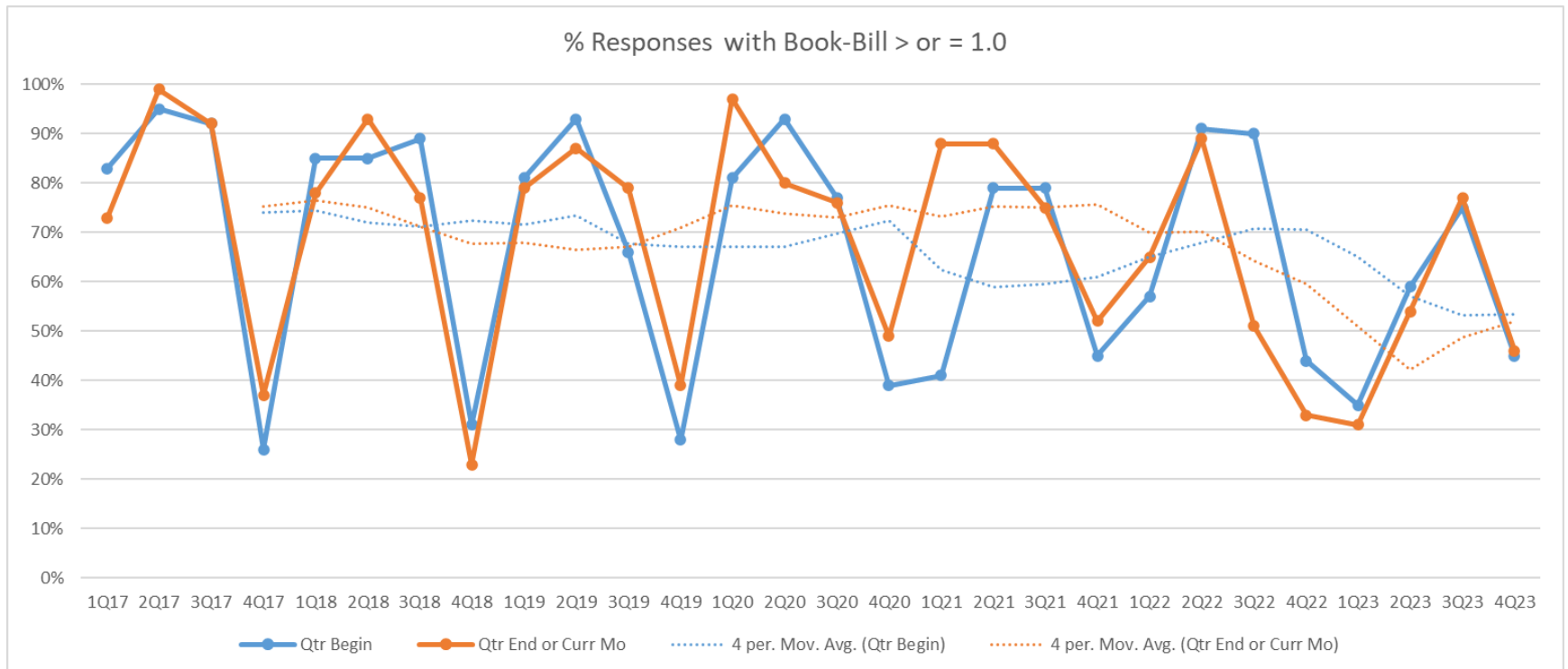


C4Q Bookings Expectations



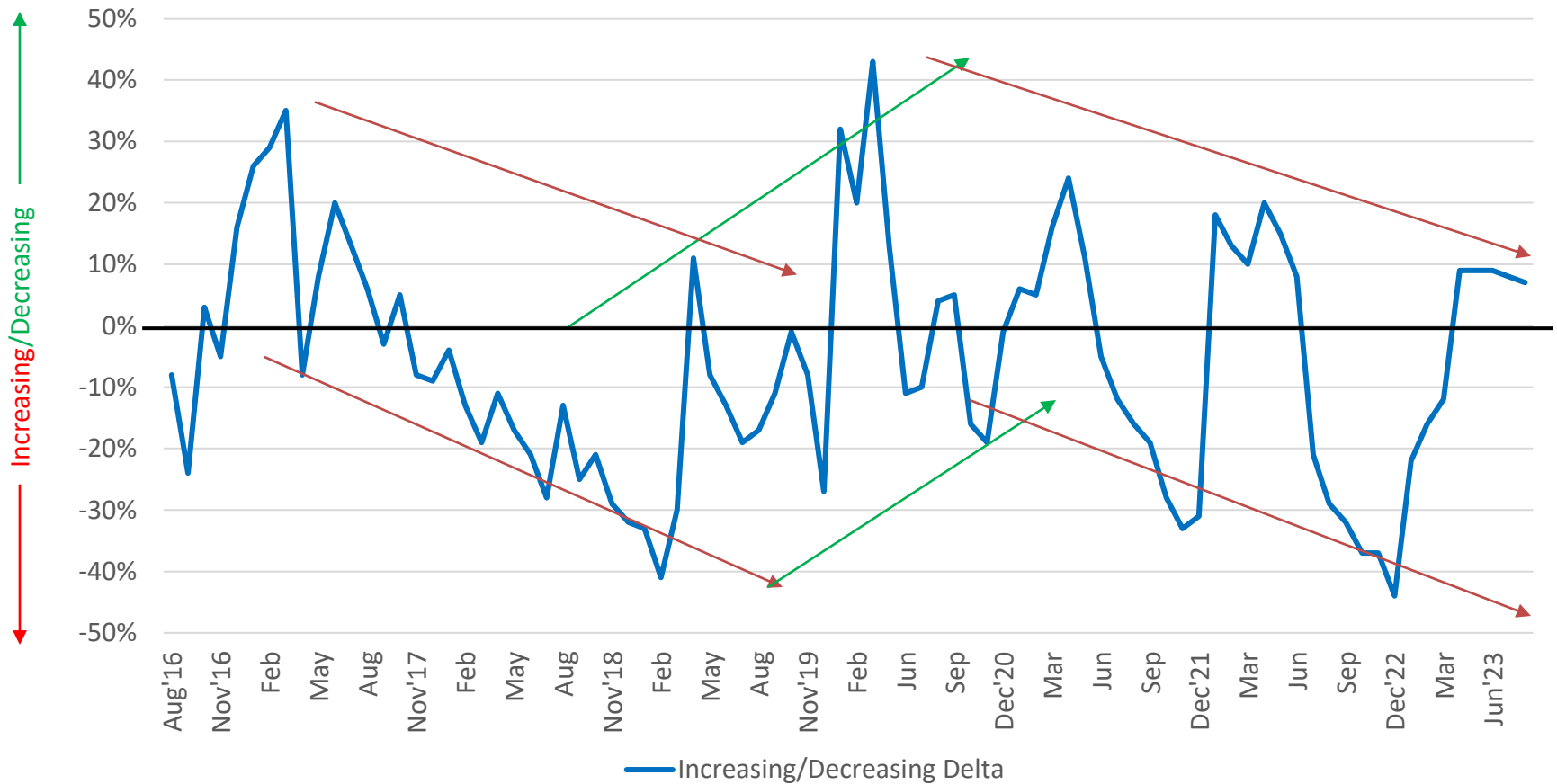
Book to Bill History & Trends

(Calendar quarters)



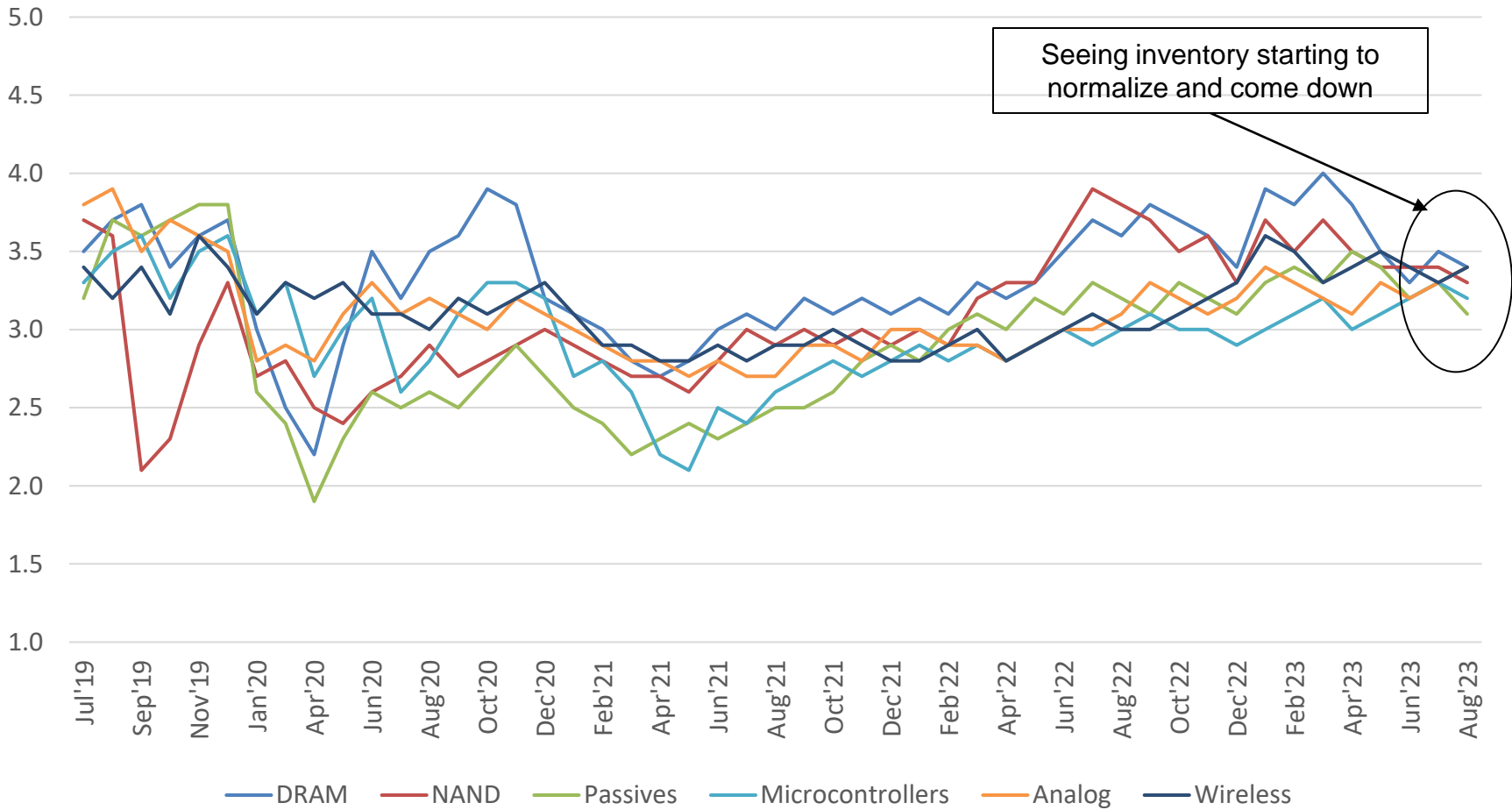
Backlog Order Push Outs/Cancellations vs. 30 Days Ago

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



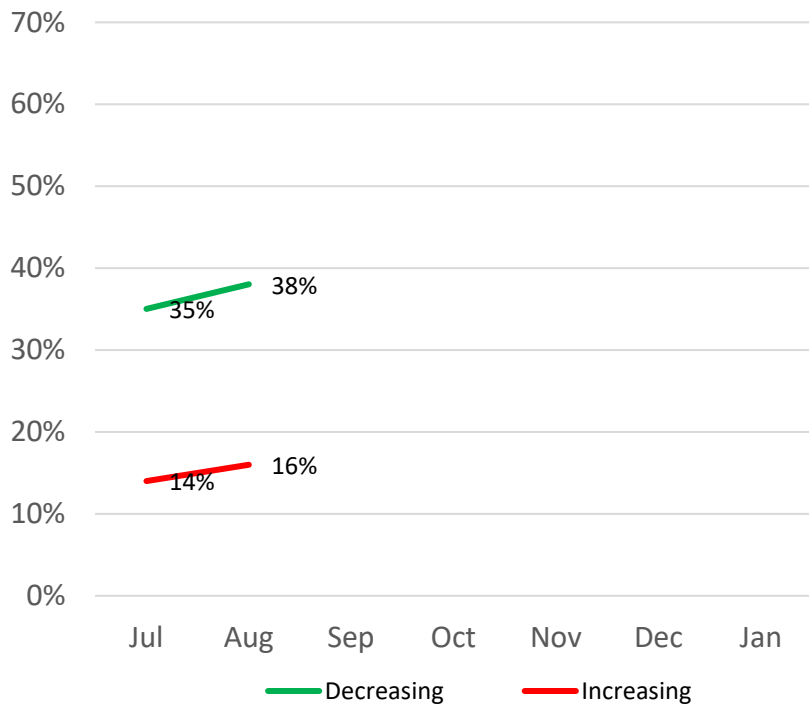
Inventory Status

(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?)

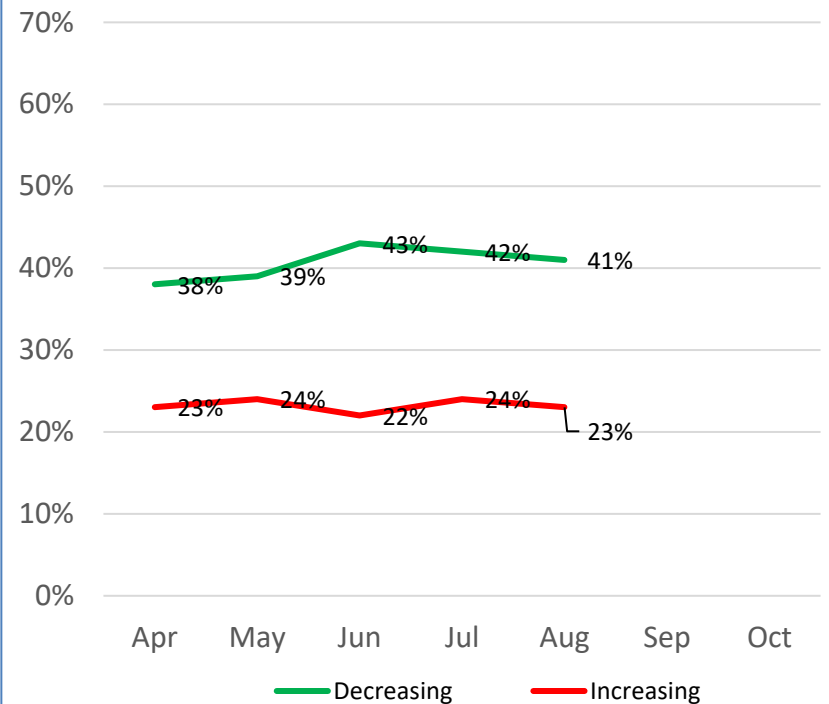


Q/Q Inventory Growth

C4Q23 Inventories vs. C3Q23

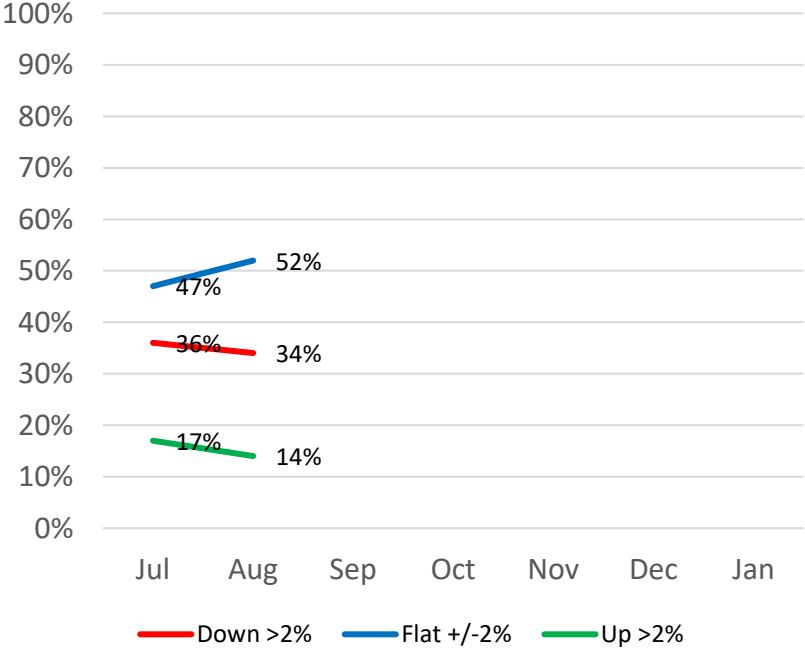


C3Q23 Inventories vs. C2Q23

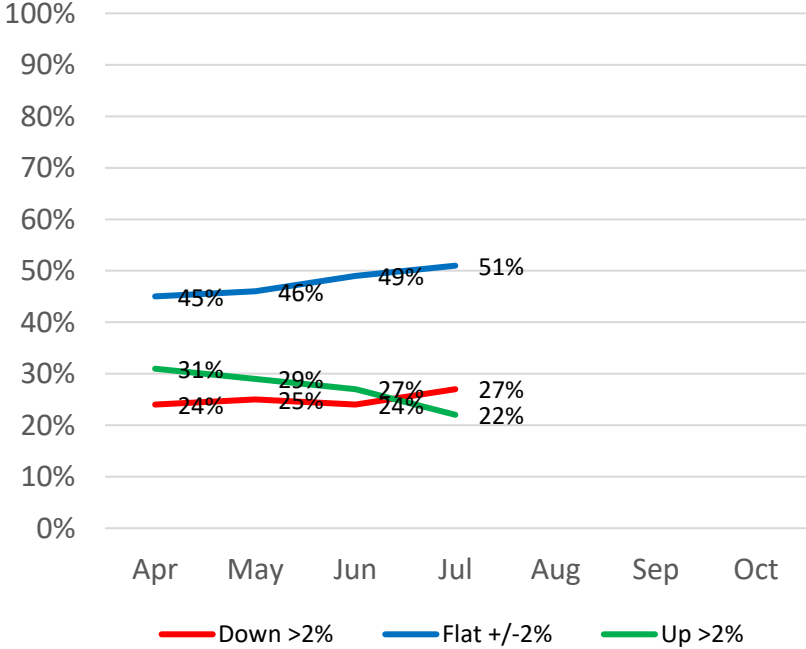


Q/Q Pricing Trends

C4Q23 Pricing vs. C3Q23



C3Q23 Pricing vs. C2Q23



Vertical Outlook

