

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

November 2022

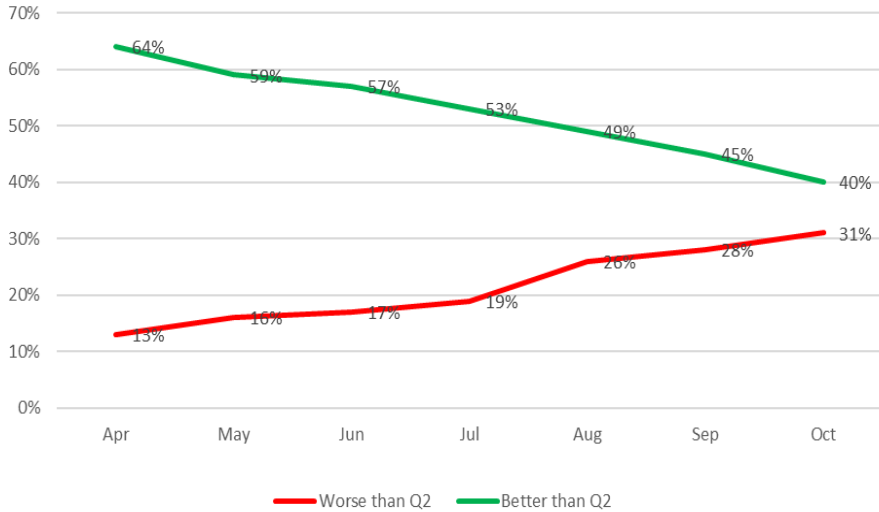
TPC October/November 2022 Survey Summary

*Survey Date: 11/4-11 Respondents: ~7,700 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 40%, Auto 19%, Comm 21%, Computing 19%, Mobile 27%, Data Ctr 20%, Other 21%*

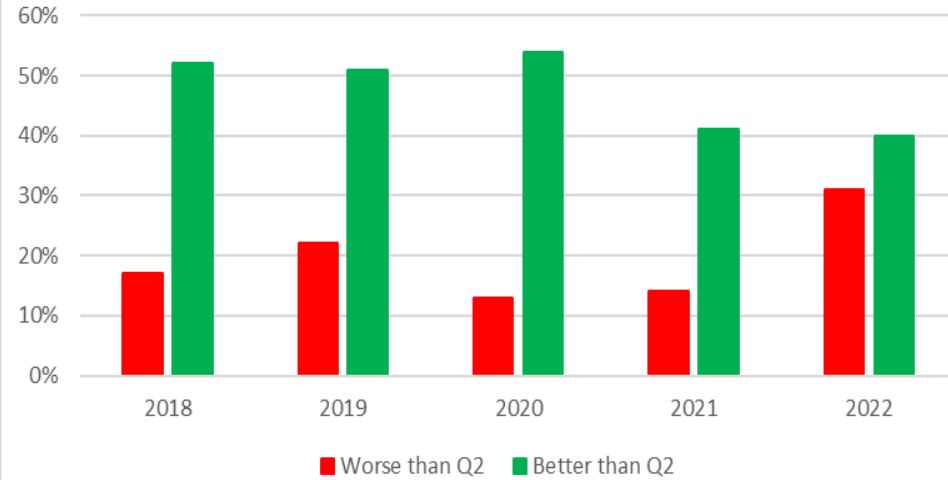
- We recently completed our monthly survey (~7,700 respondents) which saw decreases in both C3Q22's and C4Q22's outlook for growth and seasonality. Additionally, the bookings outlook for both C3Q and C4Q weakened vs. last month's survey.
- The survey showed C3Q22 weaker vs. last month with 40% seeing the quarter being better vs. 45% previously; while 31% see it as worse vs. 28% last month.
- The survey showed C4Q22 outlook weaker vs. last month; with 17% expecting q/q growth vs. 22% previously; while 55% see it as weaker vs. 52% last month.
- Backlog cancellation expectations (slide 7) continues to show negative trends and is roughly at a 6 year low.
- Key product inventory and availability (slide 8) roughly the same across all key products and are now at nominal levels. Of note is the significant increase in both DRAM and Analog availability which remain high.
- Inventories growth outlook (slide 9) continued to show significant increases in inventories for both C3Q and C4Q.
- The survey also shows pricing (slide 10) continuing to erode for C4Q (63% see it down >2% q/q).

Q/Q Demand Growth Outlook

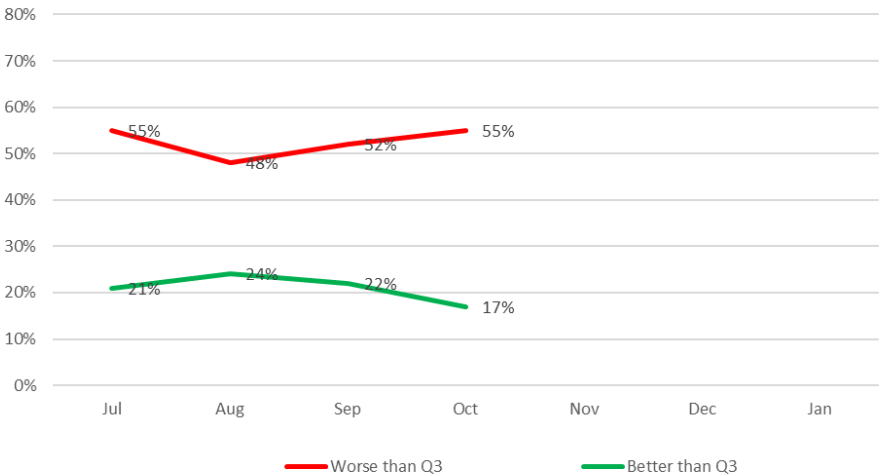
C3Q22 Growth Expectations



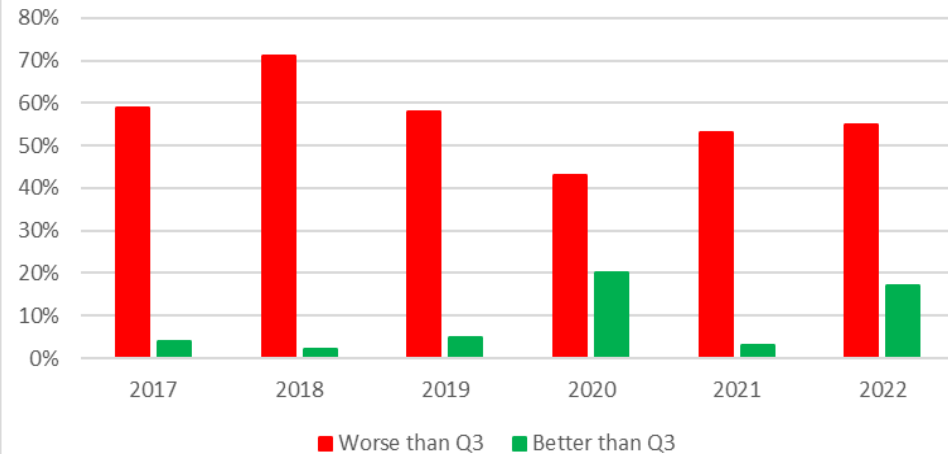
C3Q Growth Expectations vs. C2Q



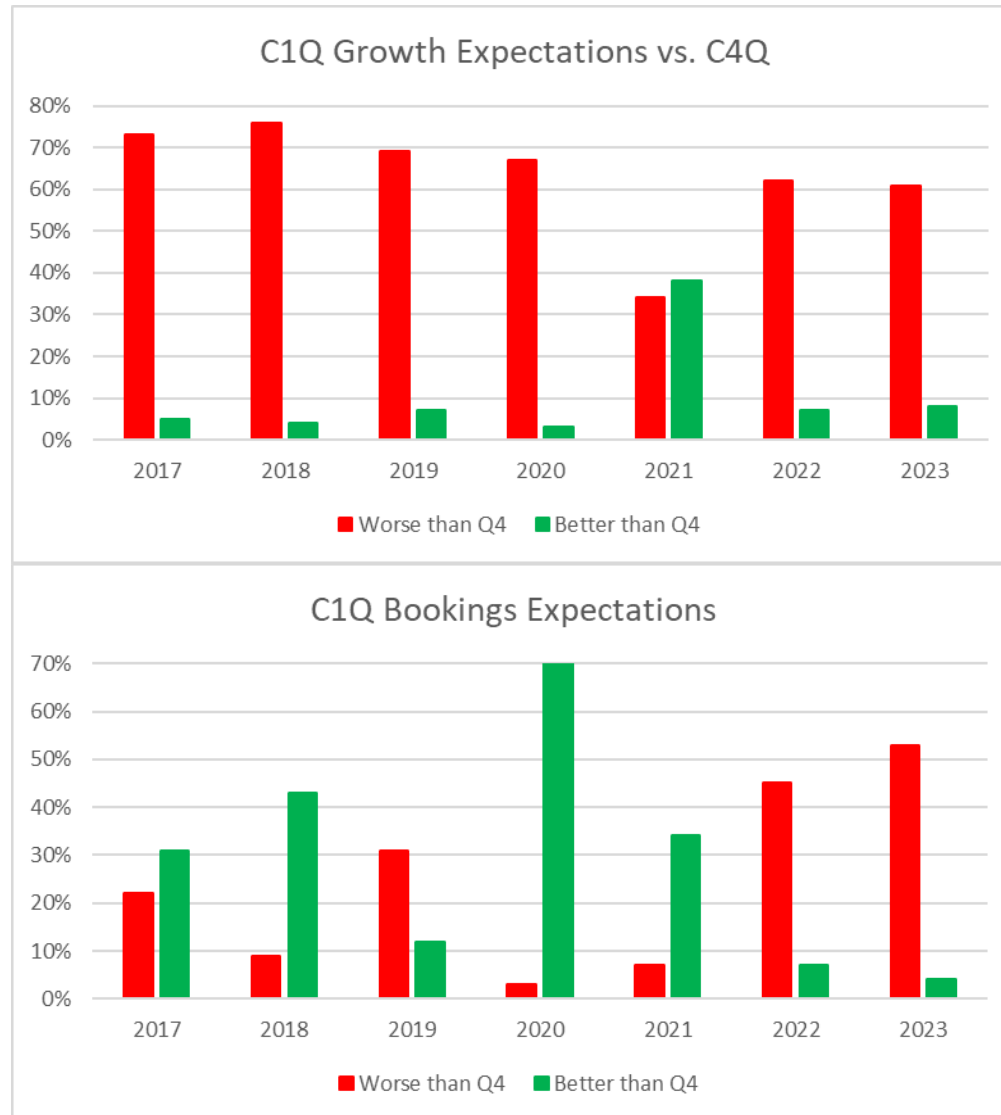
4Q22 Growth Expectations



C4Q Growth Expectations

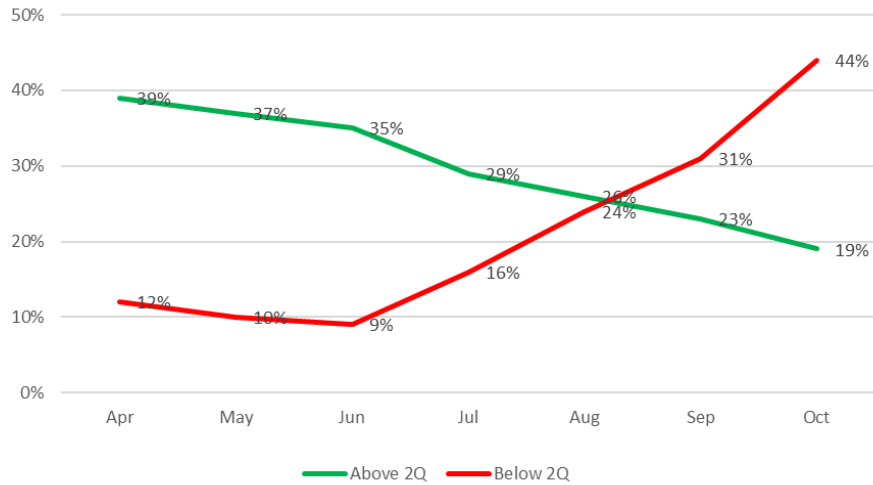


Q/Q Demand Growth Outlook

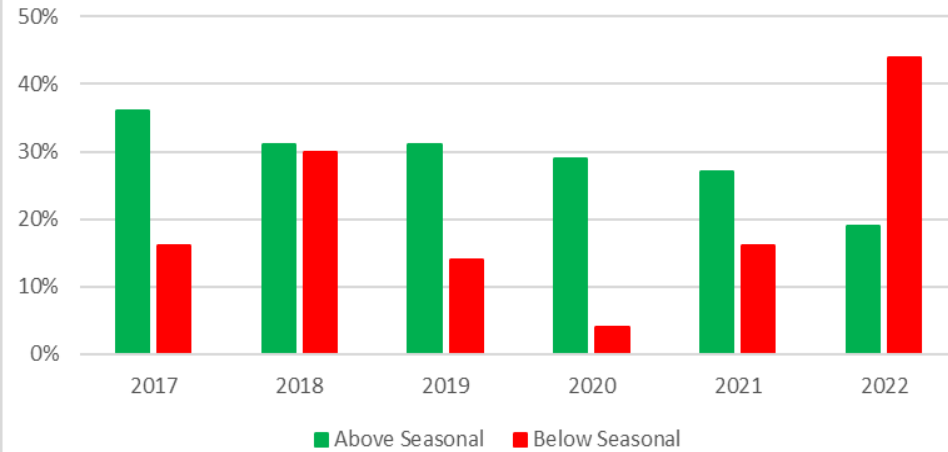


Q/Q Seasonality Expectations

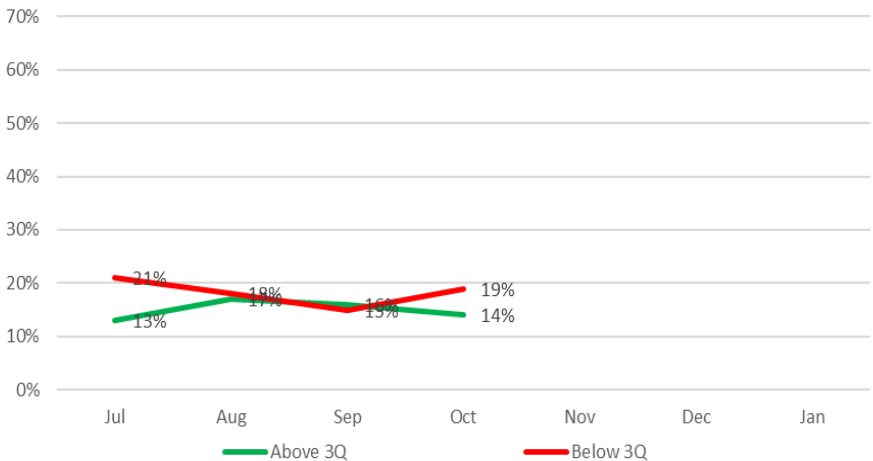
3Q22 Seasonality Expectations



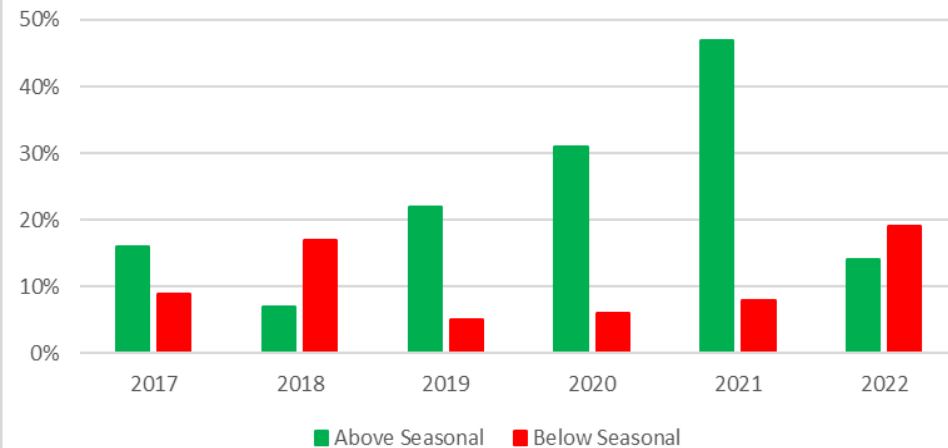
C3Q Seasonality Expectations



4Q22 Seasonality Expectations

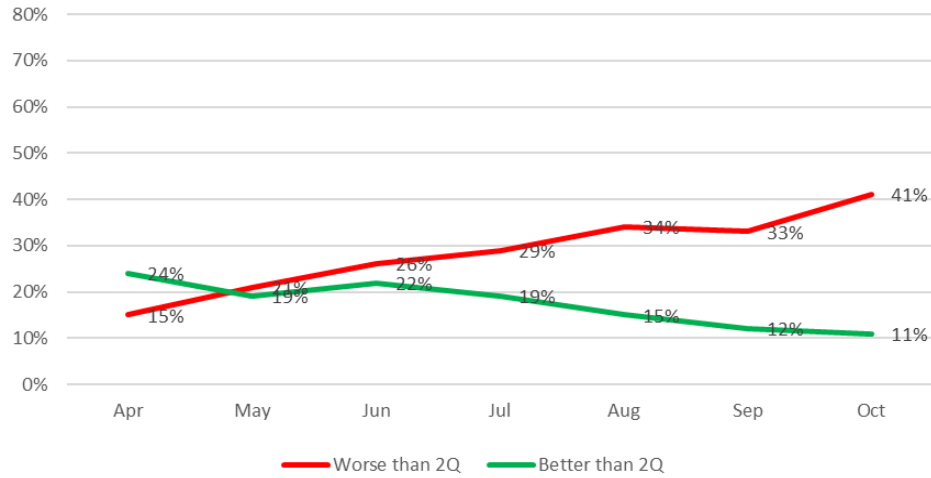


C4Q Seasonality Expectations

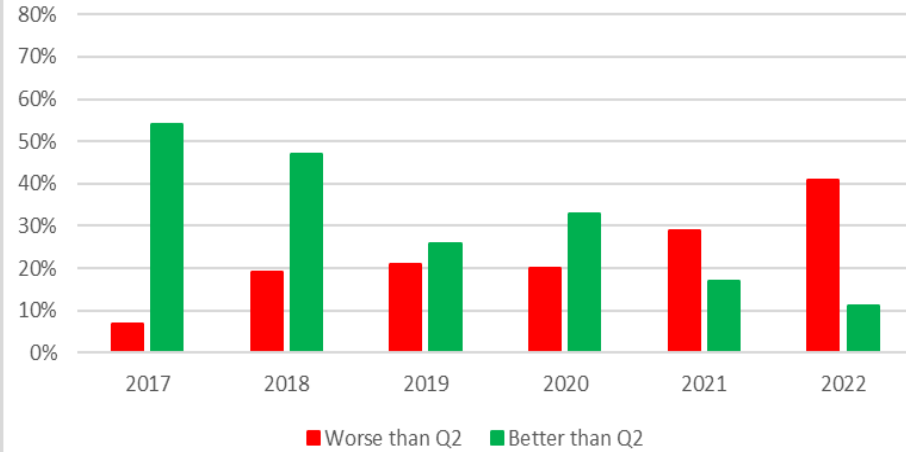


Q/Q Bookings Growth Expectations

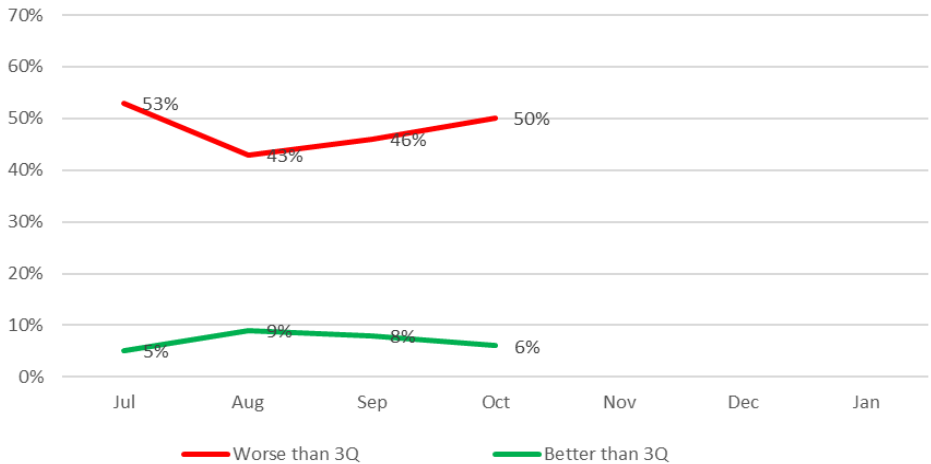
C3Q22 Bookings Expectations



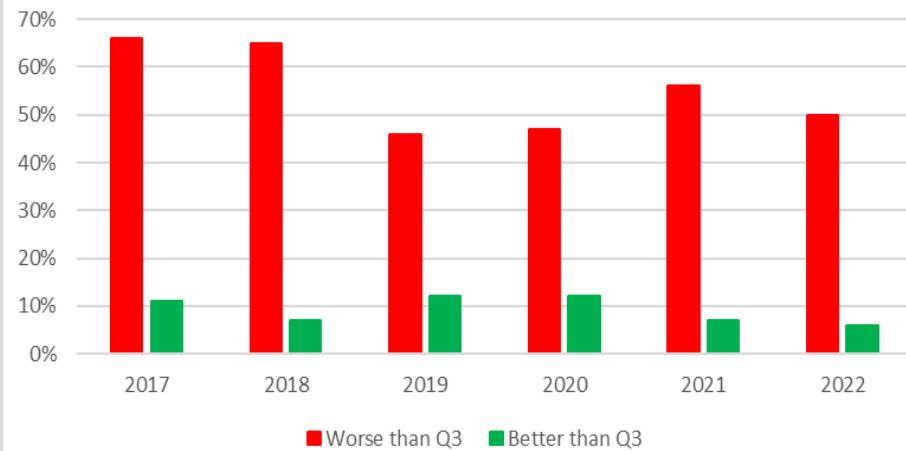
C3Q Bookings Expectations



4Q22 Bookings Expectations

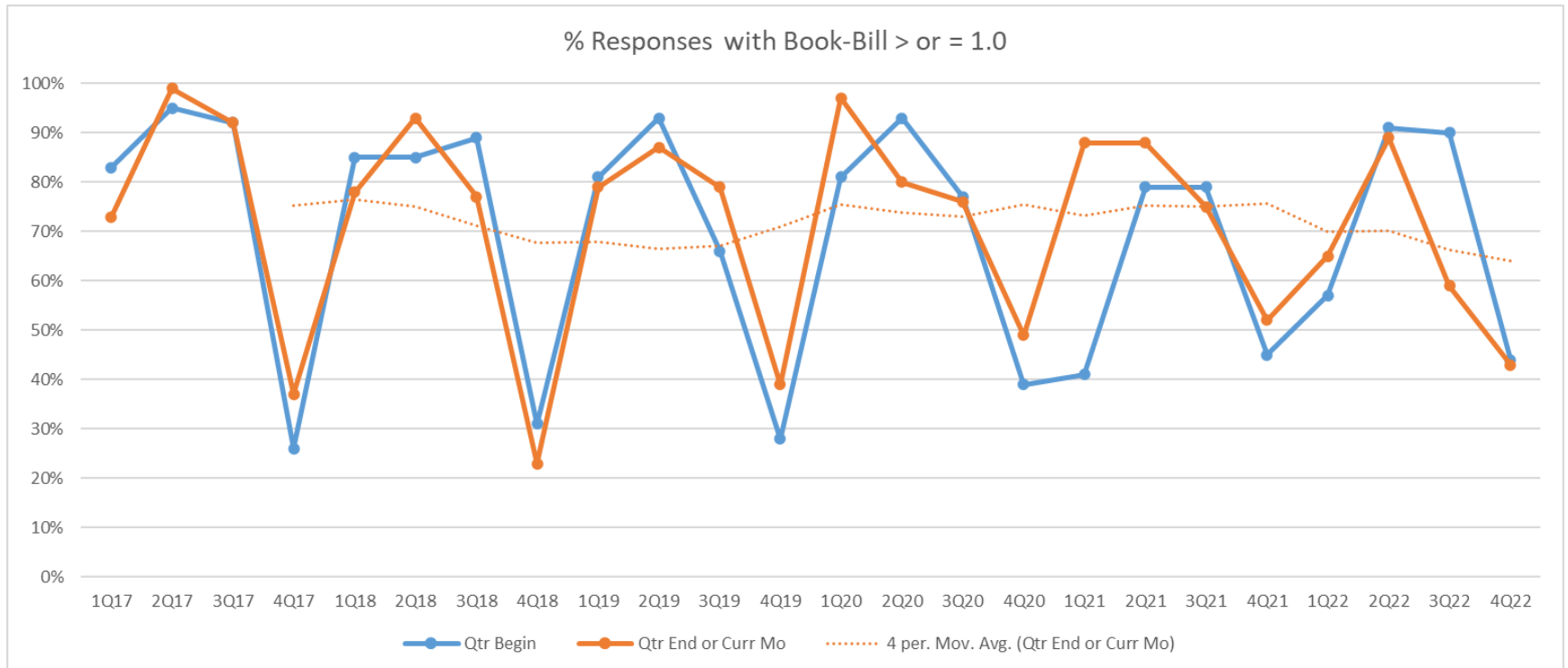


C4Q Bookings Expectations



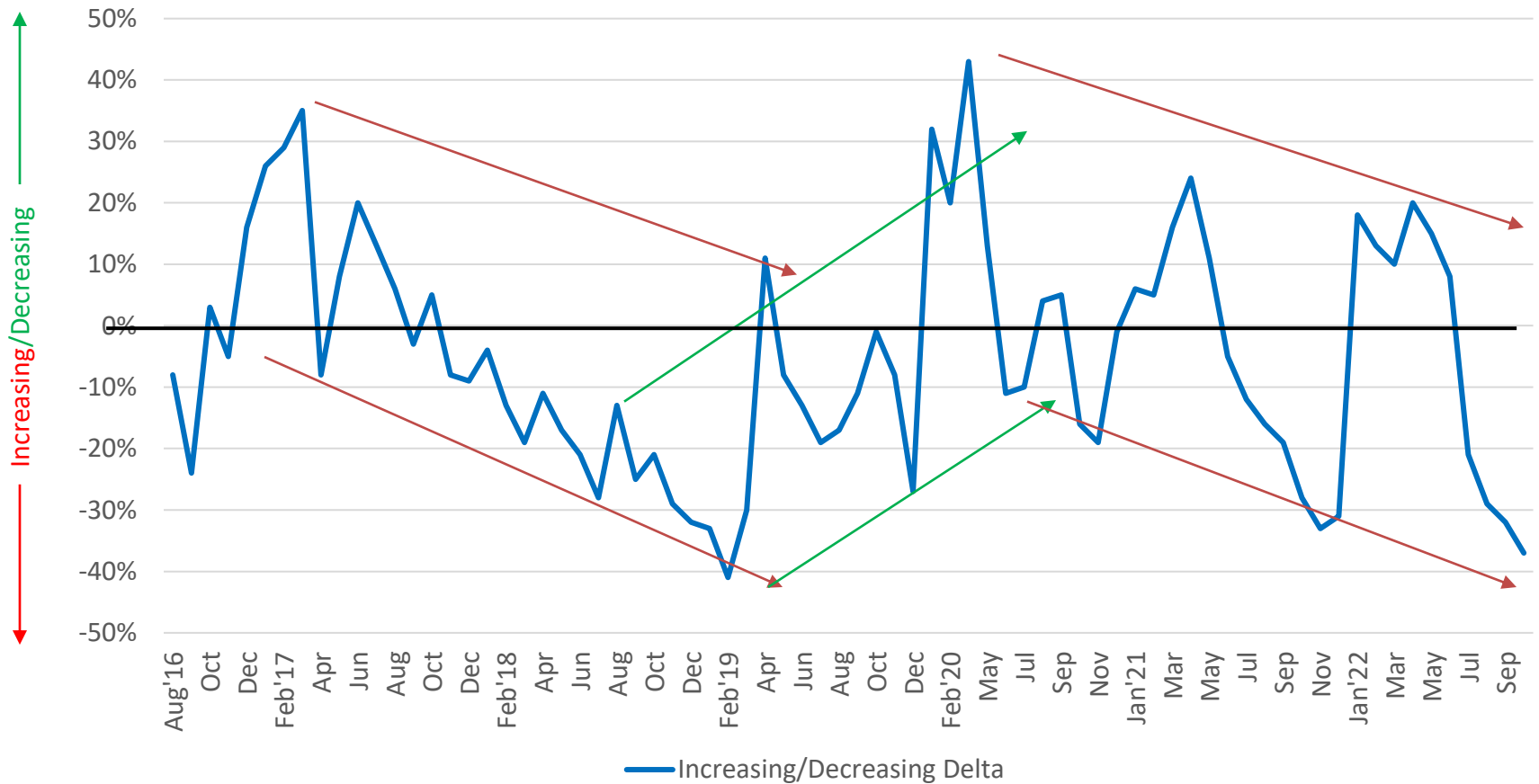
Book to Bill History & Trends

(Calendar quarters)



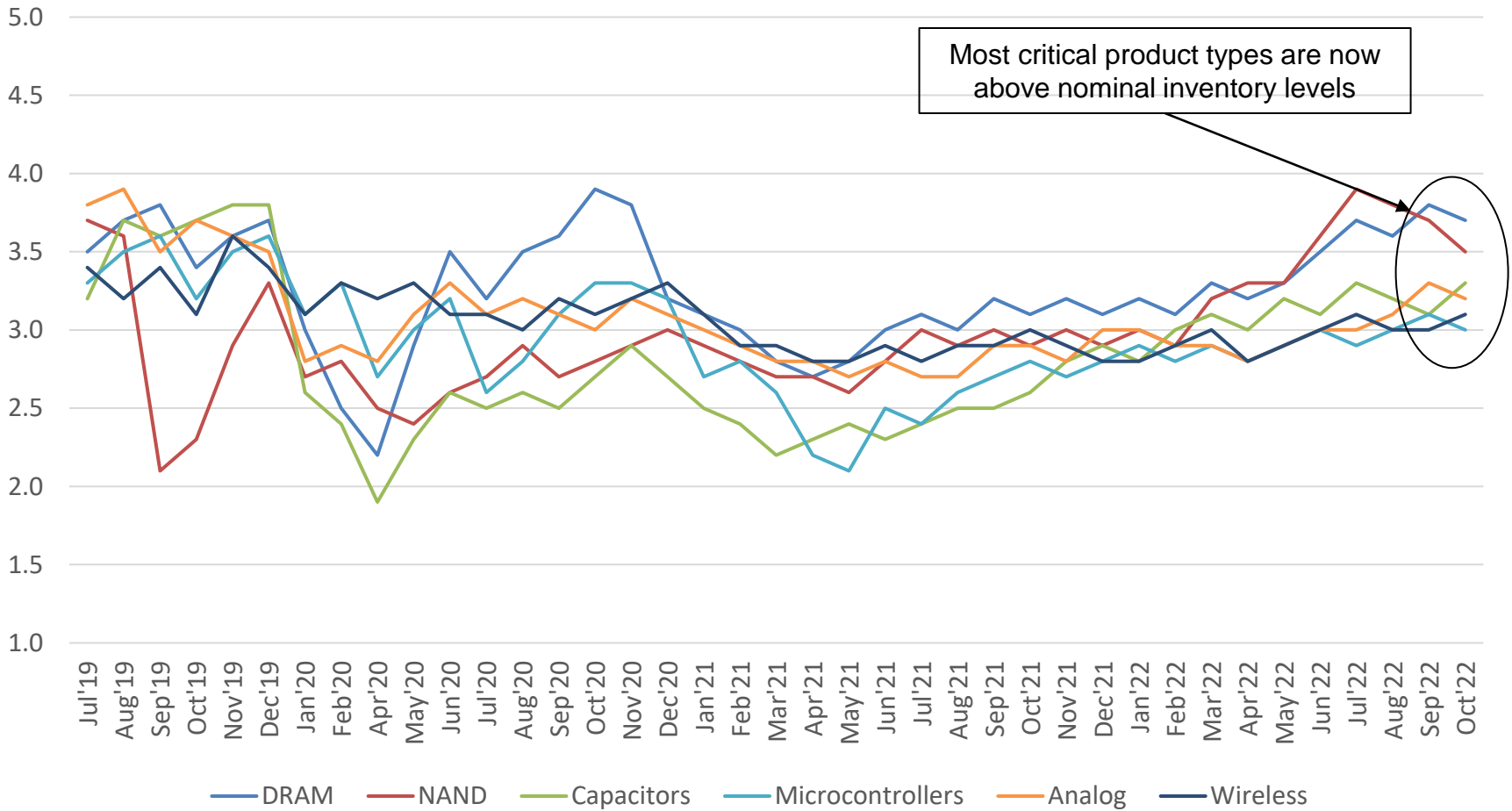
Backlog Order Push Outs/Cancellations vs. 30 Days Ago

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



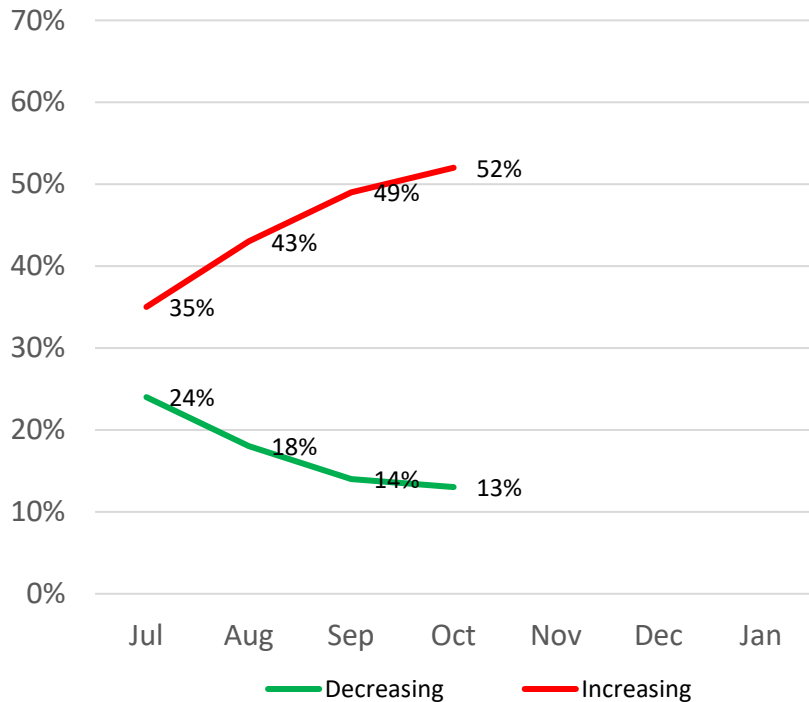
Inventory Status

(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?)

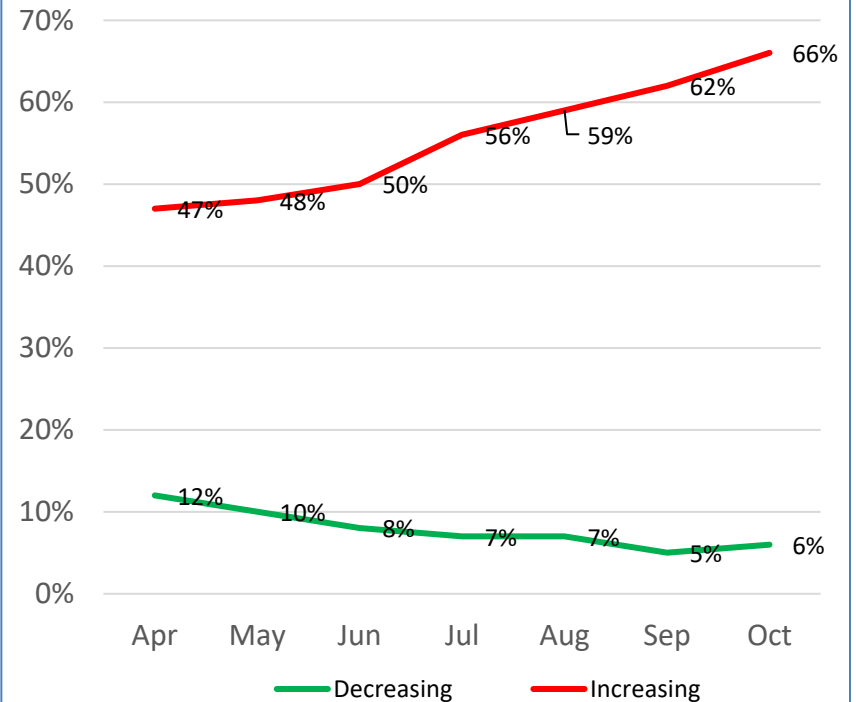


Q/Q Inventory Growth

C4Q22 Inventories vs. C3Q22

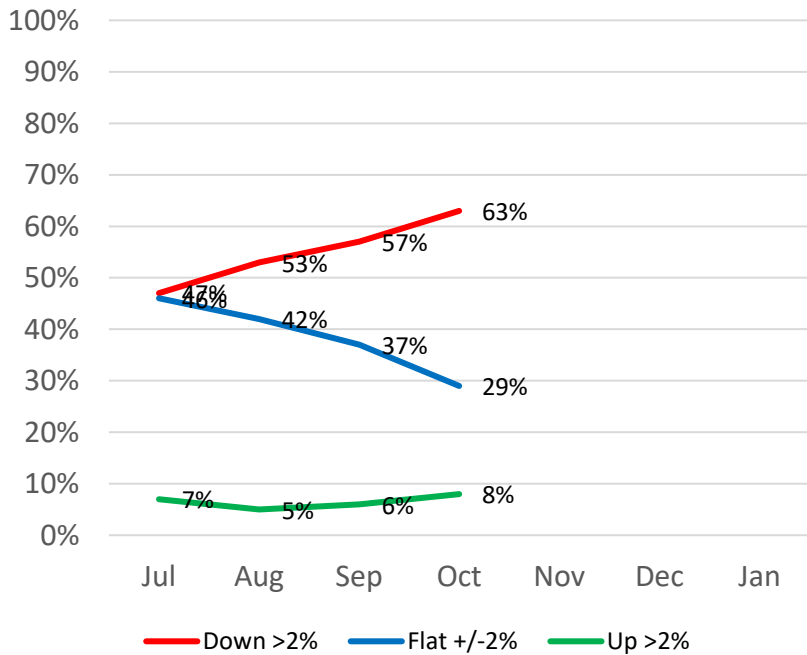


C3Q22 Inventories vs. C2Q22

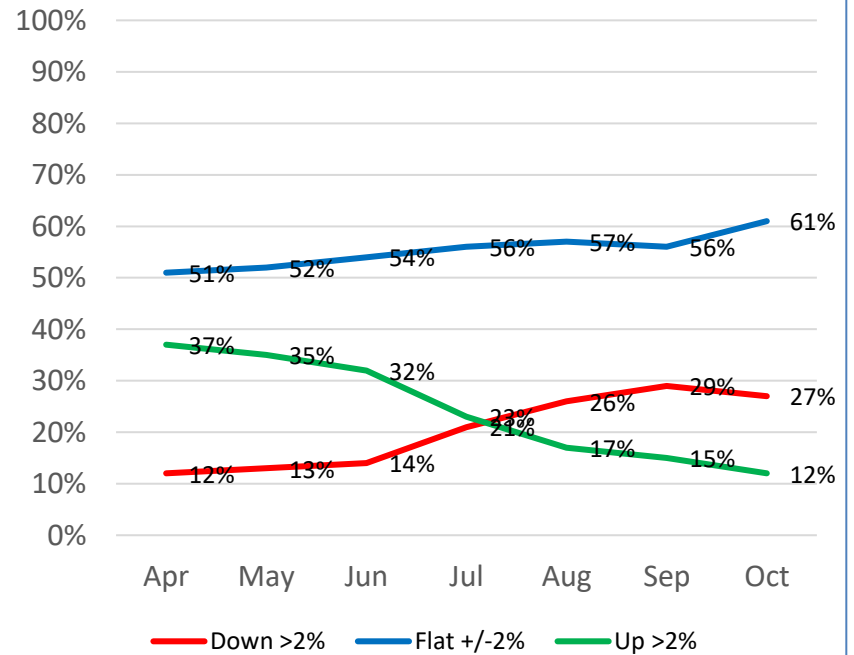


Q/Q Pricing Trends

C4Q22 Pricing vs. C3Q22



C3Q22 Pricing vs. C2Q22



Vertical Outlook

