

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

July 14, 2022

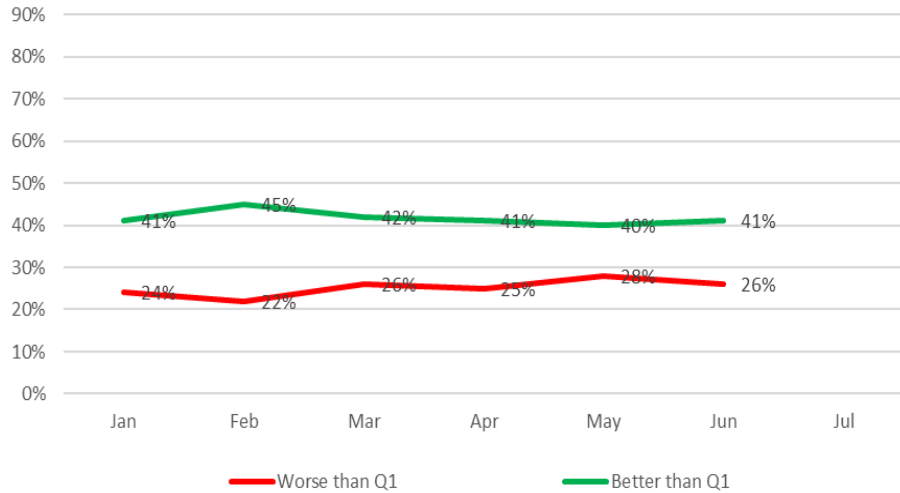
TPC June/July 2022 Survey Summary

*Survey Date: 7/7-10 Respondents: ~7,600 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 41%, Auto 22%, Comm 19%, Computing 18%, Mobile 30%, Data Ctr 18%, Other 16%*

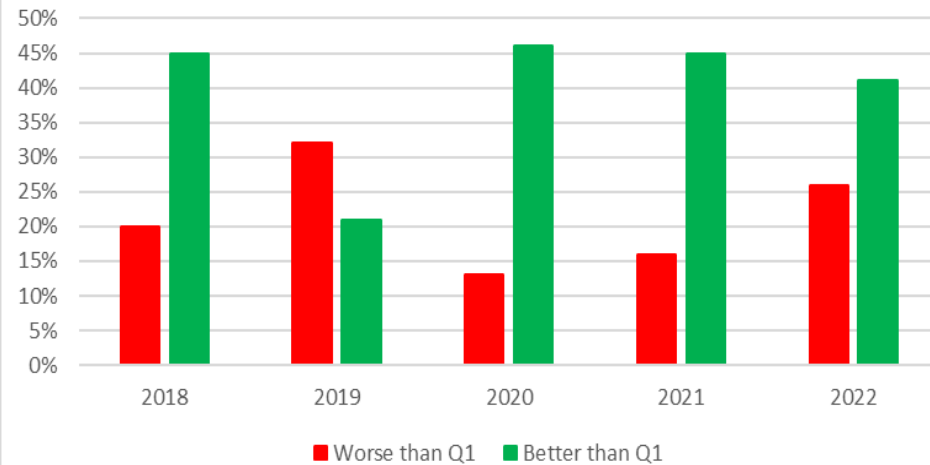
- We recently completed our monthly survey (~7,600 respondents) which saw little change in both C2Q22's and C3Q22's outlook for growth and seasonality. However, the bookings outlook for C3Q weakened vs. last month's survey.
- Our C2Q22 outlook shows a weaker outlook vs. previous years including pre-COVID, with seasonality roughly in line with CY19. The bookings outlook for C2Q22 is much weaker vs. pre-COVID levels.
- Our C3Q22 outlook also shows a return to more normal pre-COVID expectations; however, the bookings outlook for C2Q22 far weaker. We believe this is a harbinger of weakening demand for 2H.
- The survey showed C2Q22 roughly the same outlook vs. last month with 41% seeing the quarter being better vs. 40% previously; while 26% see it as better vs. 28% last month.
- The survey also showed C3Q22 outlook roughly the same vs. last month; with 57% expecting q/q growth vs. 59% previously; while 17% see it as weaker vs. 16% last month.
- Backlog cancellation expectations (slide 7) continues to show negative trends.
- Key product inventory and availability (slide 8) showed improvement in availability across all key products and are now at nominal levels. Of note is the significant increase in both DARM and NAND availability.
- Inventories growth outlook (slide 9) showed a significant increase in inventories for both C2Q and C3Q.

Q/Q Demand Growth Outlook

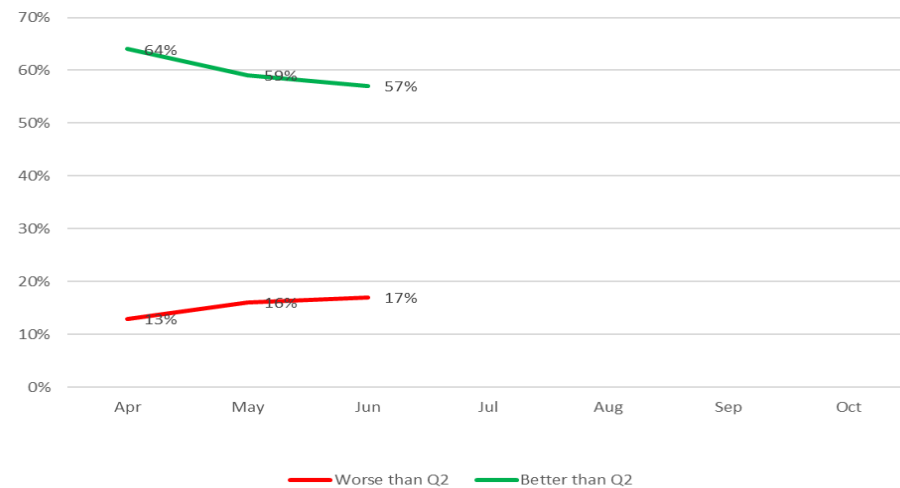
C2Q22 Growth Expectations



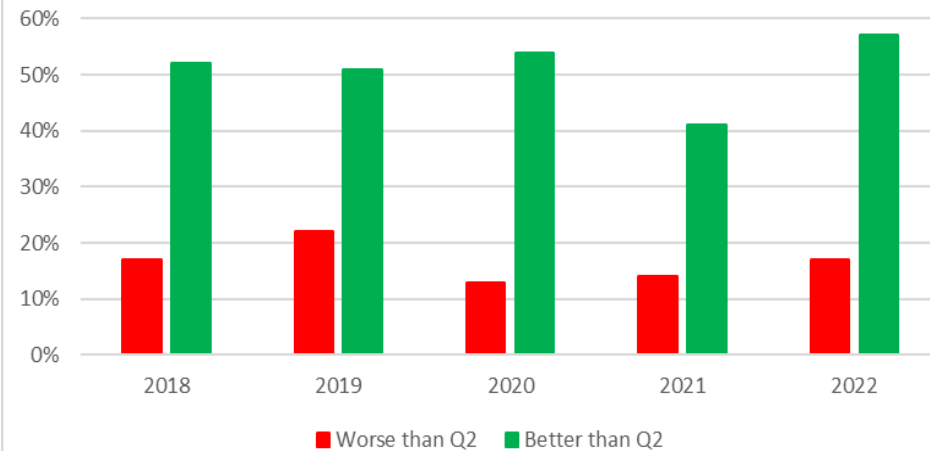
C2Q Growth Expectations vs. C1Q



C3Q22 Growth Expectations

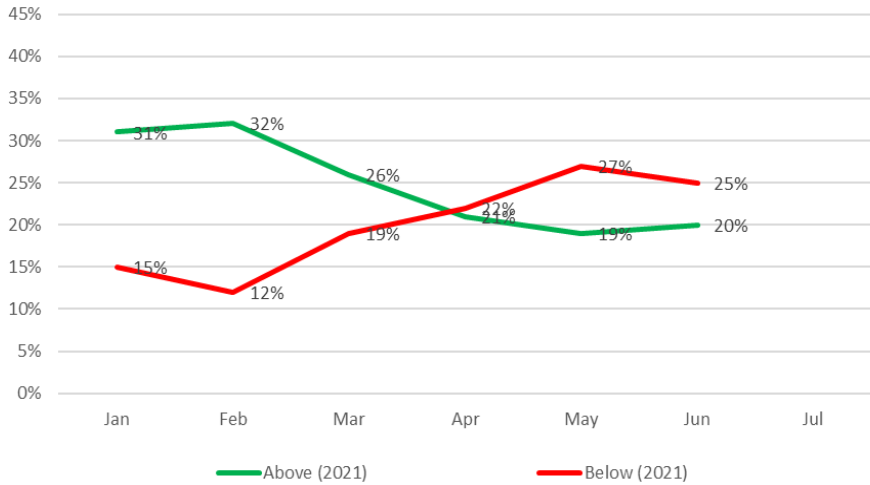


C3Q Growth Expectations vs. C2Q

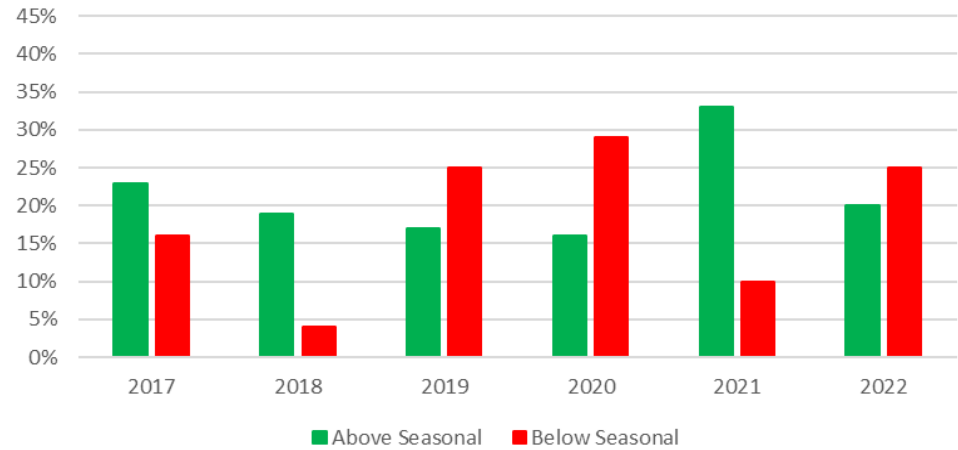


Q/Q Seasonality Expectations

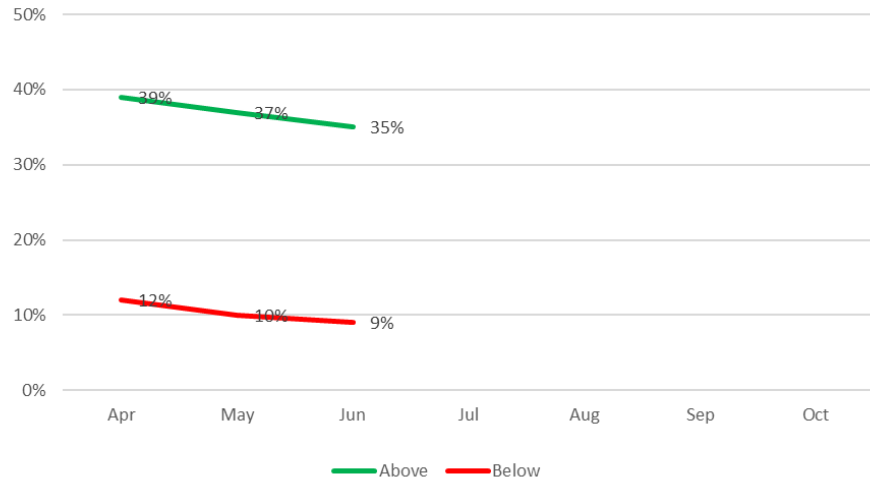
C2Q22 Seasonality Expectations



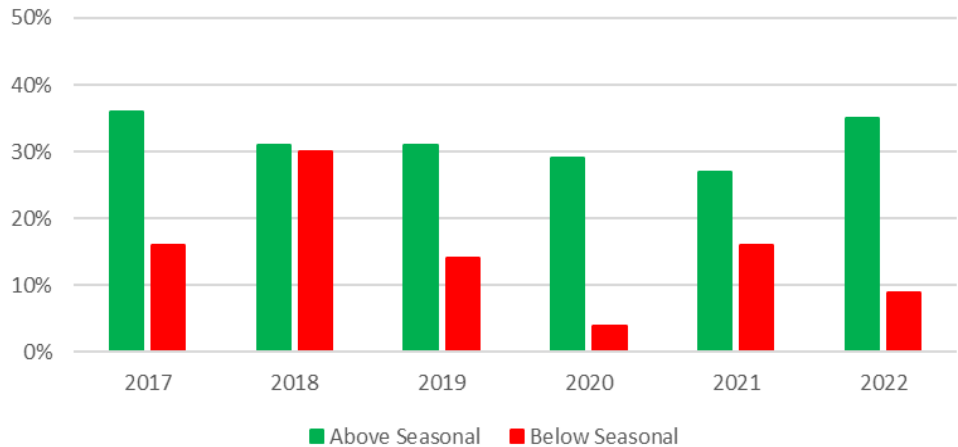
C2Q Seasonality Expectations



3Q22 Seasonality Expectations

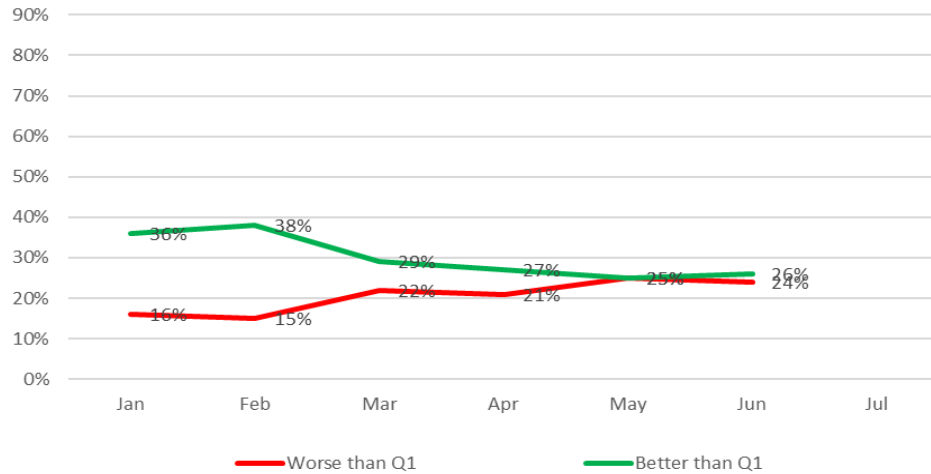


C3Q Seasonality Expectations

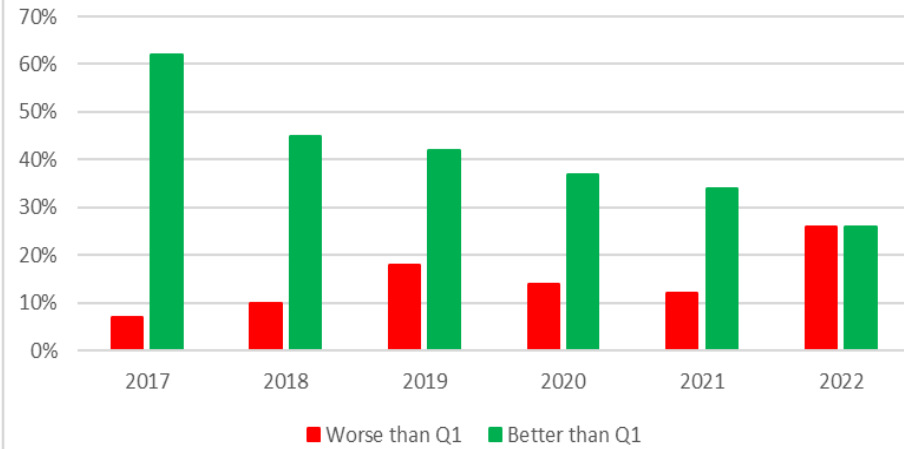


Q/Q Bookings Growth Expectations

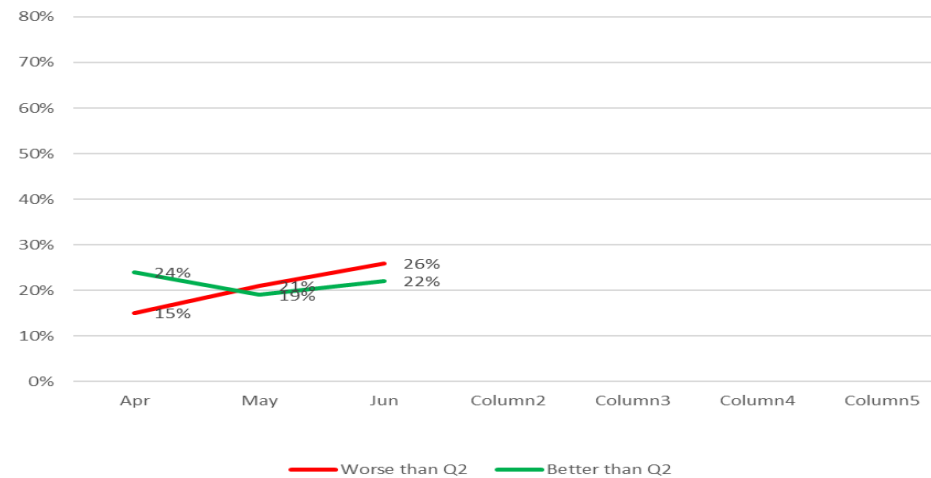
C2Q22 Bookings Expectations



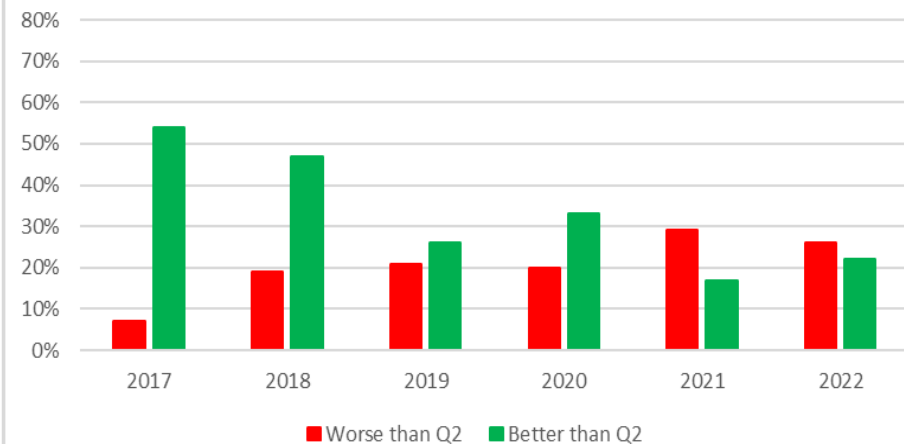
C2Q Bookings Expectations



C3Q22 Bookings Expectations

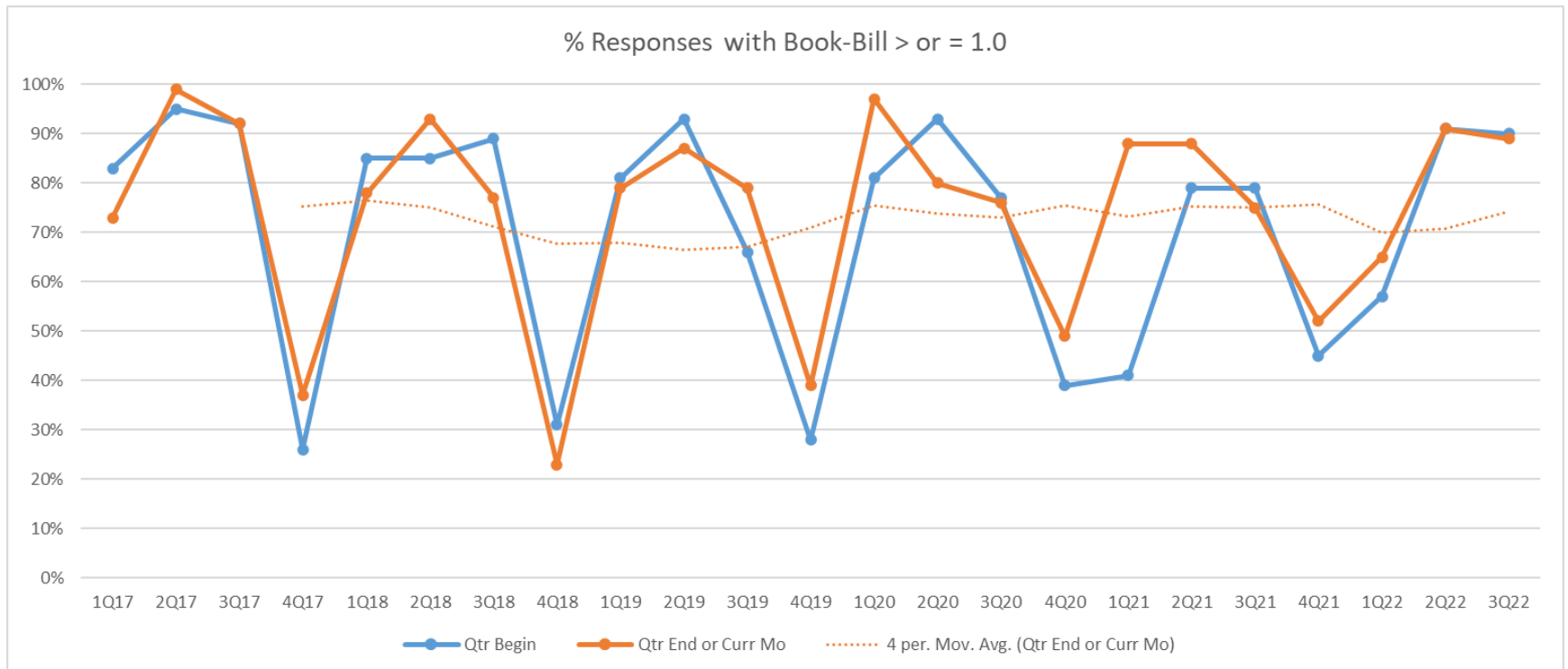


C3Q Bookings Expectations



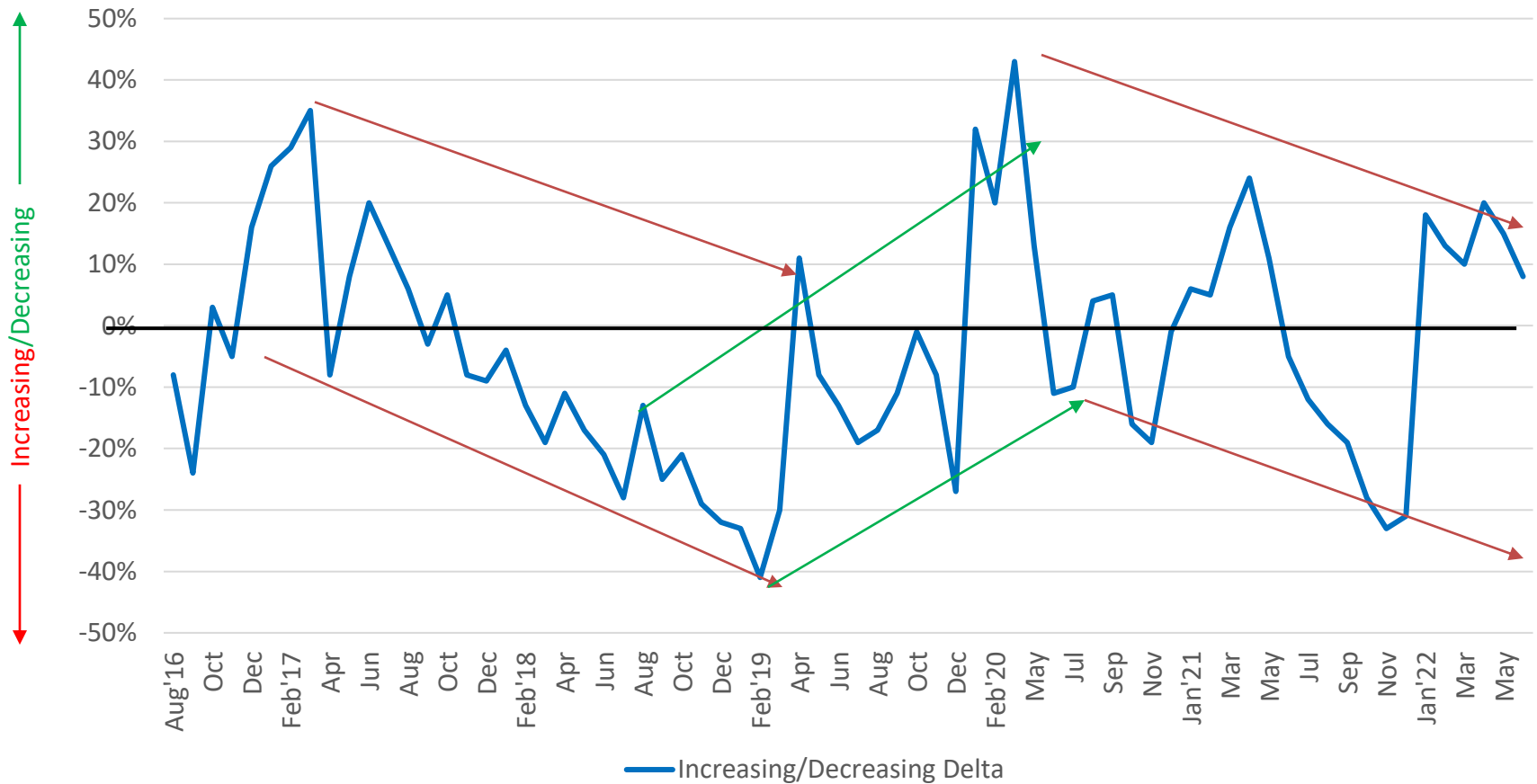
Book to Bill History & Trends

(Calendar quarters)



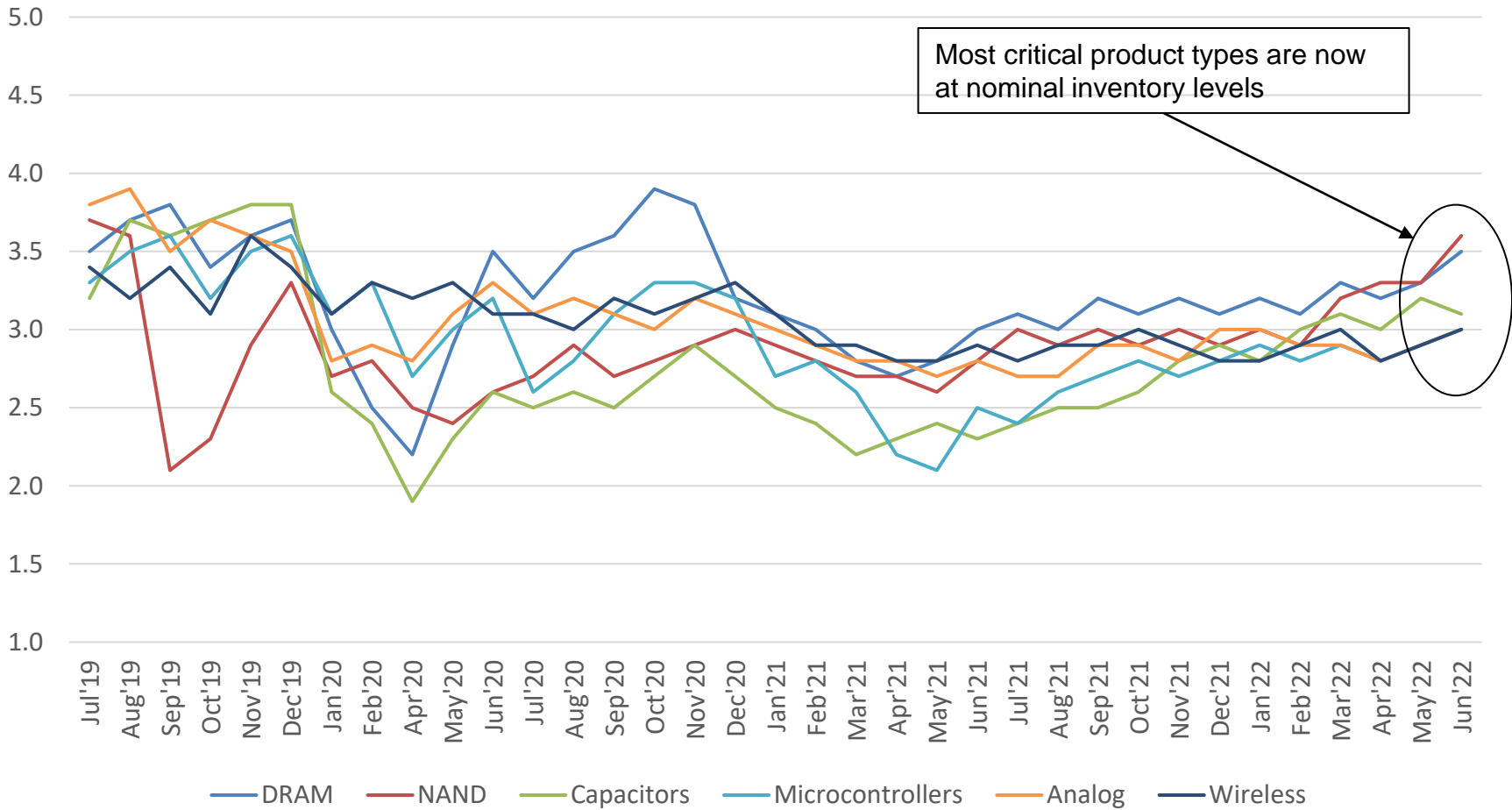
Backlog Order Push Outs/Cancellations vs. 30 Days Ago

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



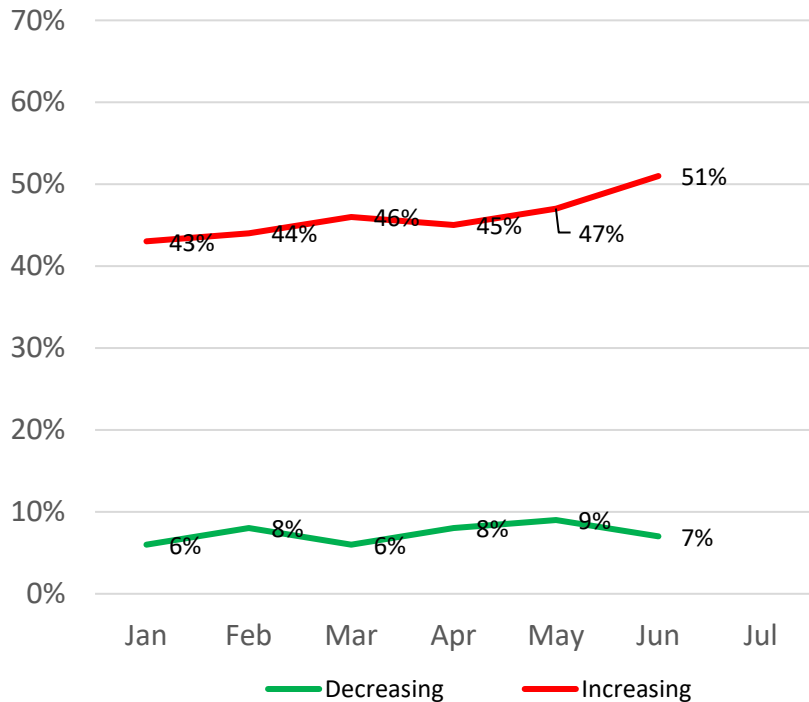
Inventory Status

(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?)

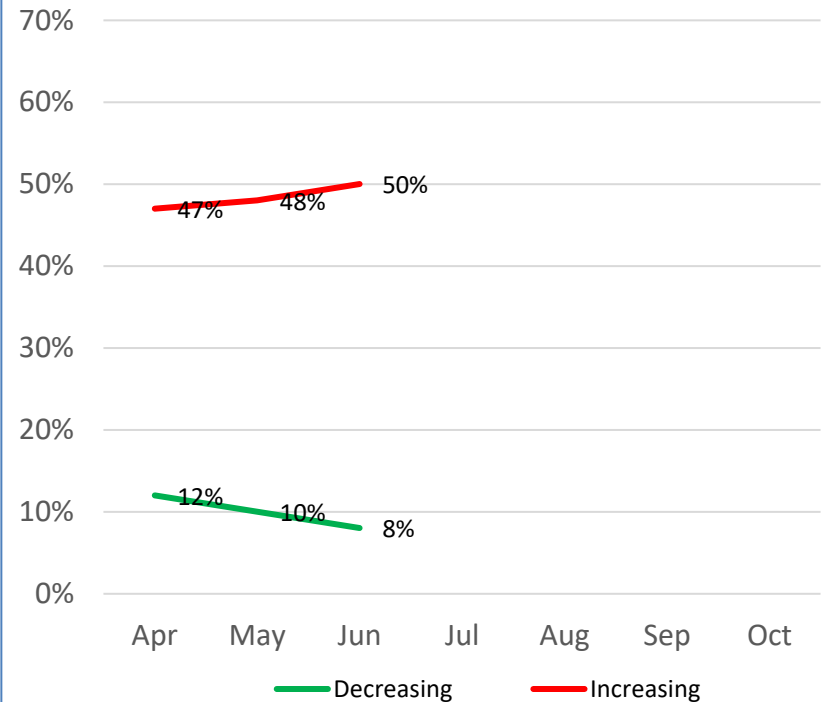


Q/Q Inventory Growth

C2Q22 Inventories vs. C1Q22

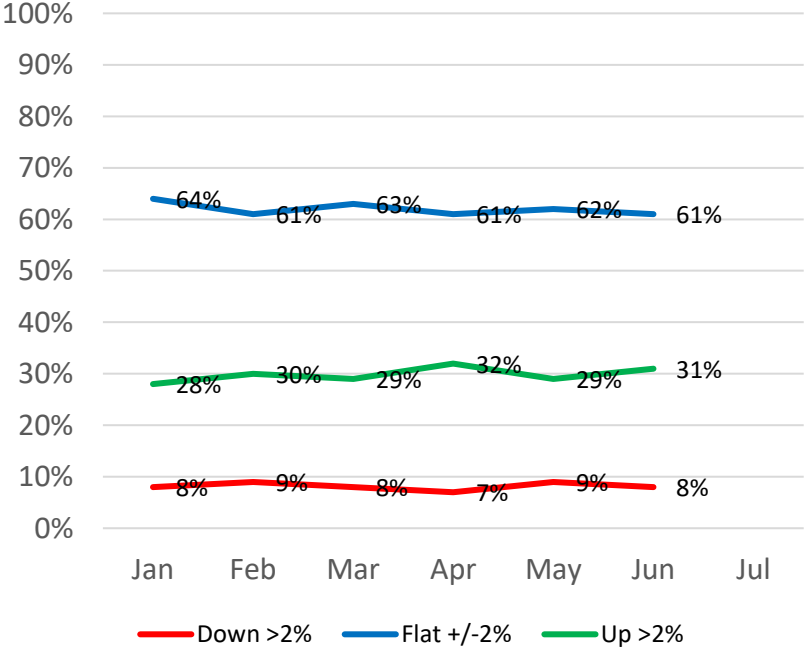


C3Q22 Inventories vs. C2Q22

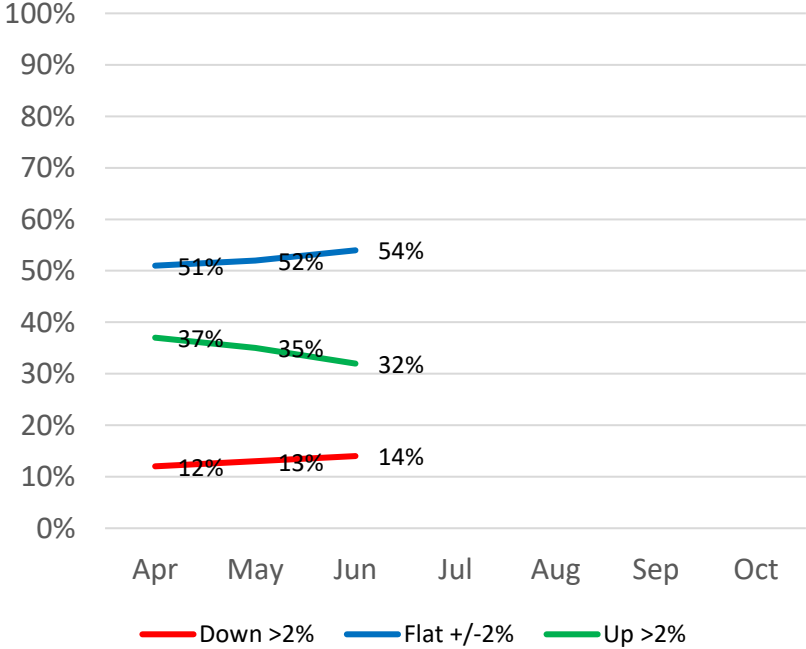


Q/Q Pricing Trends

C2Q22 Pricing vs. C1Q22



C3Q22 Pricing vs. C2Q22



Vertical Outlook

