

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

June 10, 2021

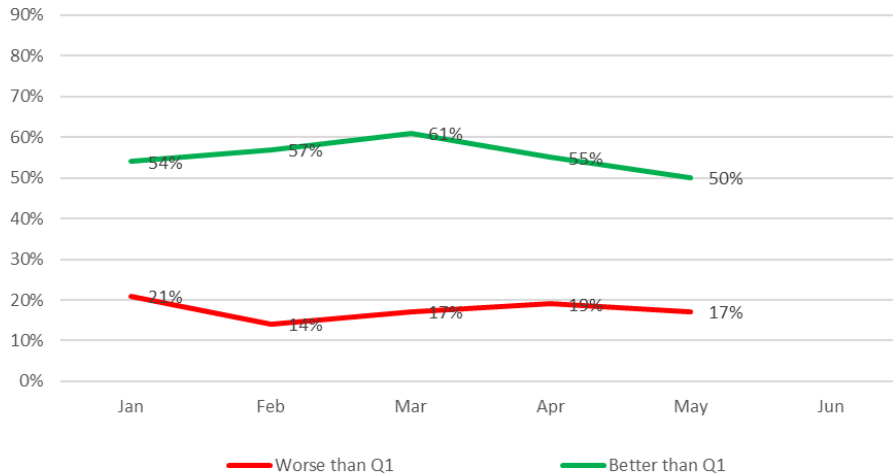
TPC May 2021 Survey Summary

*Survey Date: 6/4-6/6 Respondents: ~10,500 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 39%, Auto 21%, Comm 18%, Computing 19%, Mobile 30%, Data Ctr 18%, Other 14%*

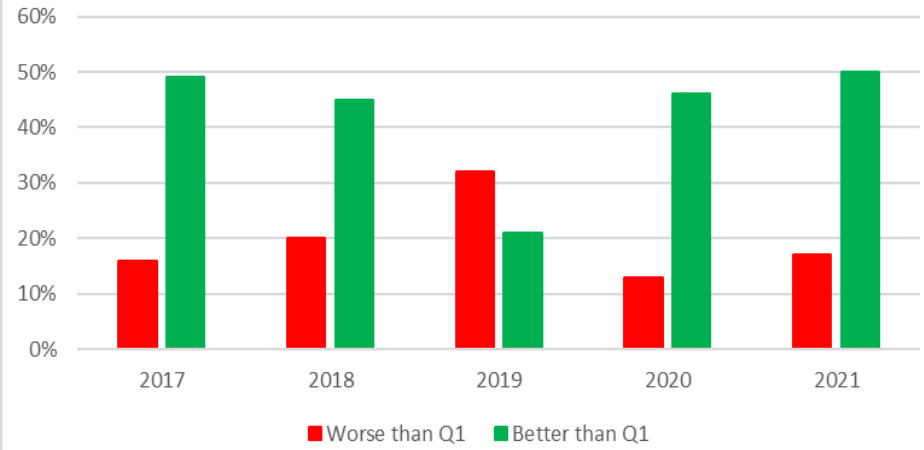
- We recently completed our monthly survey (~10,500 respondents) which saw slight decreases in both C2Q21 and C3Q21 growth; but still improving seasonality expectations. The bookings outlook for C2Q and C3Q also weakened slightly. However, by far, the majority of responses see growth in both C2Q and C3Q.
- The survey showed a growth outlook for C2Q21 weakening vs. last month with 50% expecting q/q growth vs. 55% previously and 17% see it as weaker vs. 19% last month. The C3Q outlook decreased with 62% expecting q/q growth vs. 68% previously; while only 7% see it as weaker vs. 9% last month.
- The survey showed a slight weakening in bookings outlook for C2Q21 with 33% expecting improving bookings vs. C1Q compared to 35% last month; while 8% now expect weaker bookings vs. 9% last month. Bookings outlook for C3Q21 was also down as well with 18% expecting improving bookings vs. C2Q compared to 25% last month; while 23% now expect weaker bookings vs. 18% last month.
- Backlog cancellation expectations (slide 7) continues to show decreasing cancellations over the past 5 months.
- Availability of critical parts continues to trend towards less availability especially in Microcontrollers where we have seen 3 straight months of low inventories.
- Pricing has been on a trend of increasing due to tighter product availability, with C3Q responses indicating continued increases in pricing. We are seeing another round of price increases (especially in MCU's and PMIC's) by key Analog suppliers beginning July 1.
- We continue to see a significant shortage of supply that is being driven by demand (especially in the Auto and Mobile sectors). We believe this will remain strong throughout the year and into 1H22.

Q/Q Demand Growth Outlook

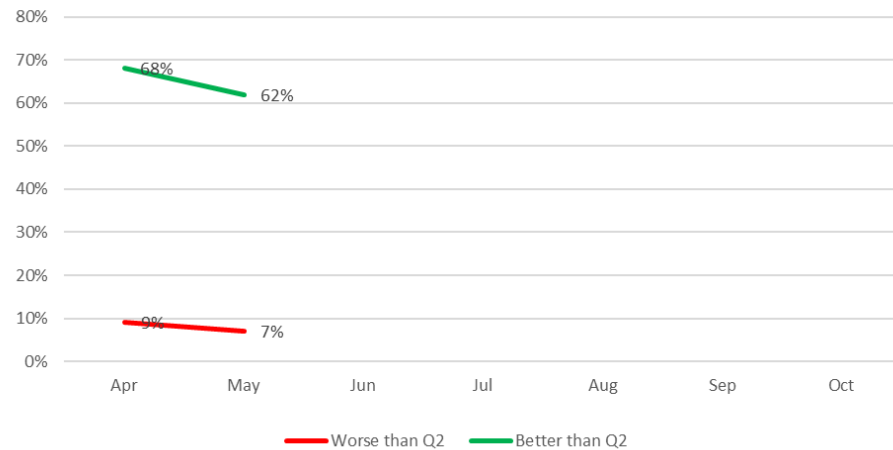
C2Q21 Growth Expectations



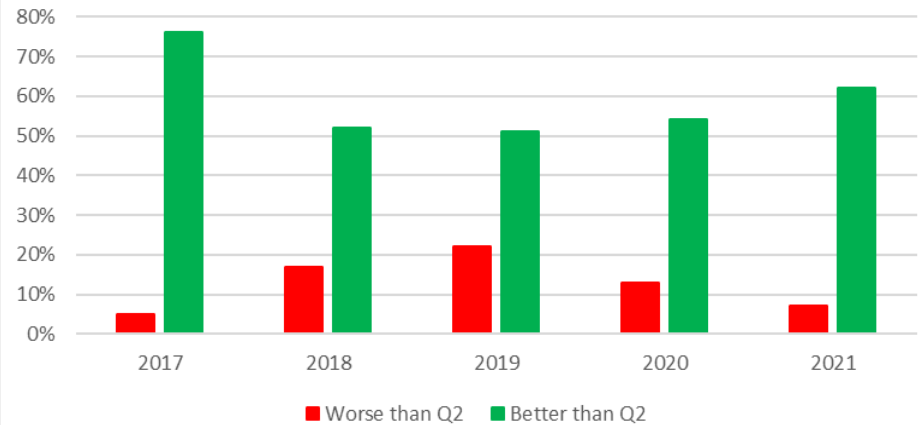
C2Q Growth Expectations vs. C1Q



3Q21 Growth Expectations

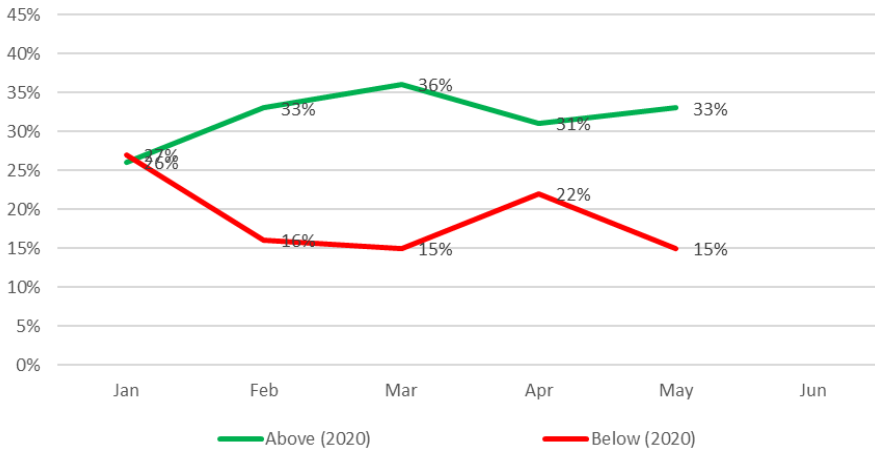


C3Q Growth Expectations vs. C2Q

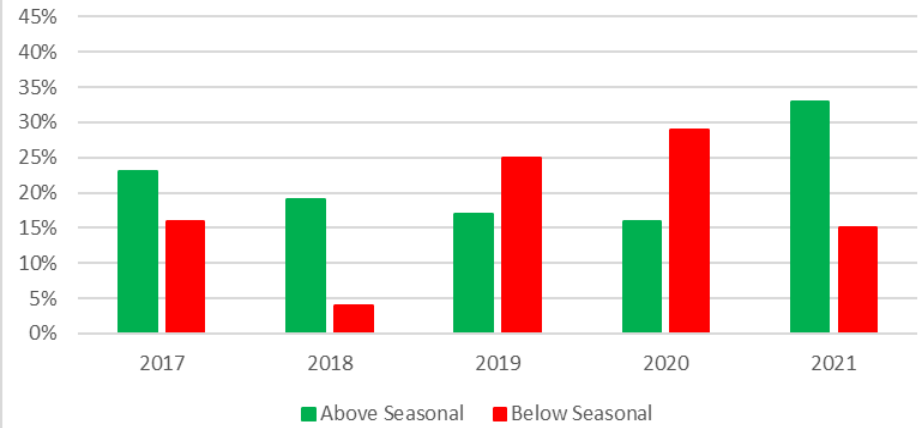


Q/Q Seasonality Expectations

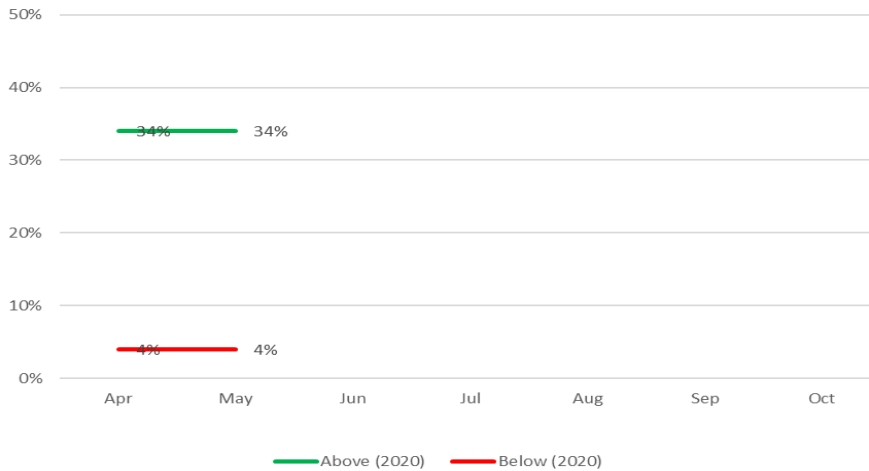
C2Q21 Seasonality Expectations



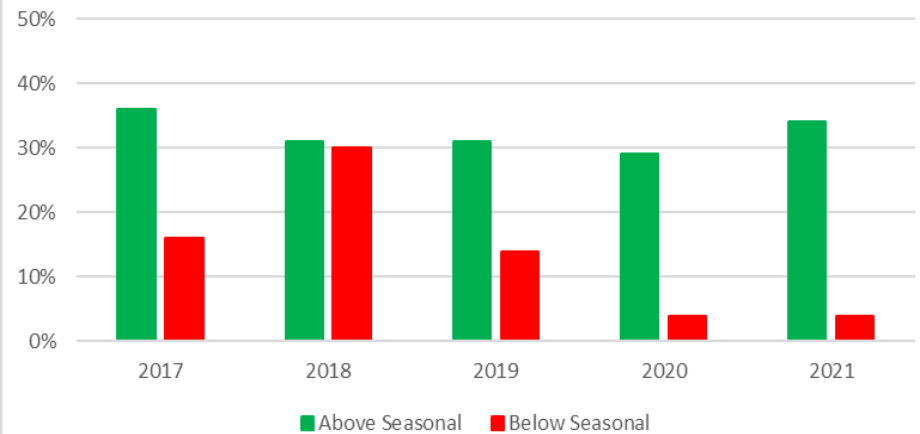
C2Q Seasonality Expectations



3Q21 Seasonality Expectations

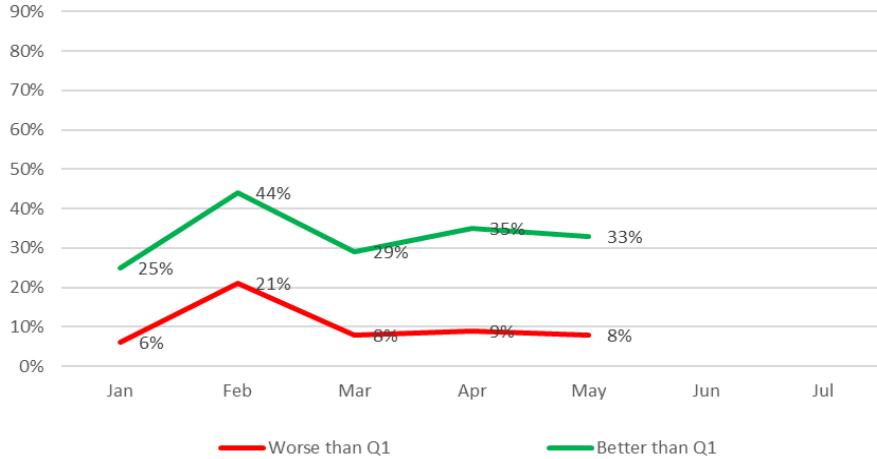


C3Q Seasonality Expectations

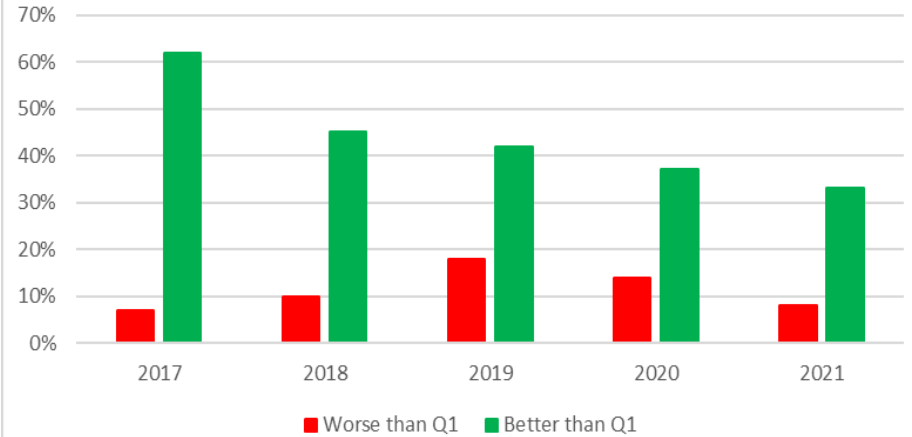


Q/Q Bookings Growth Expectations

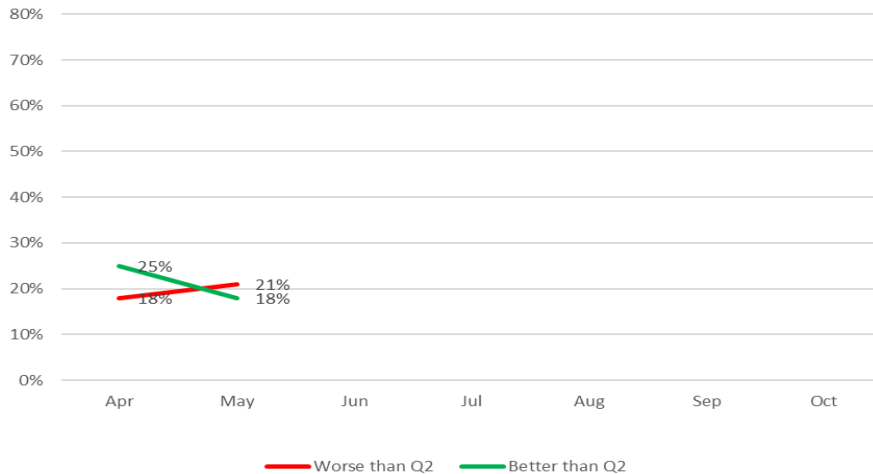
C2Q21 Bookings Expectations



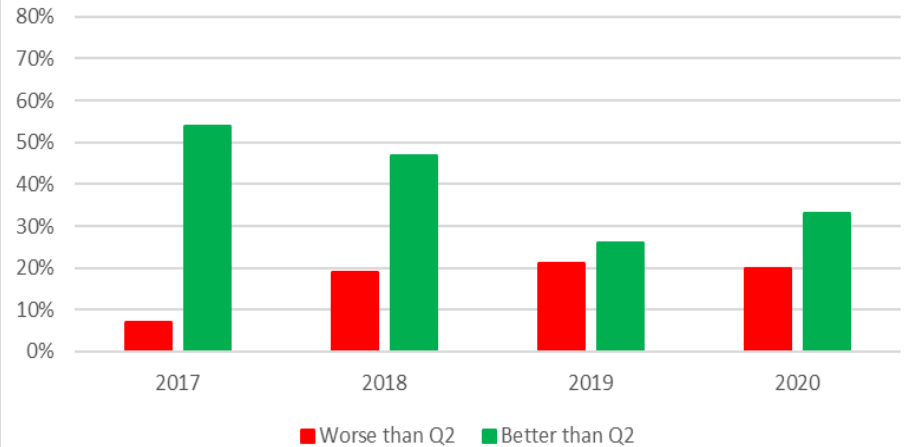
C2Q Bookings Expectations



C3Q21 Bookings Expectations

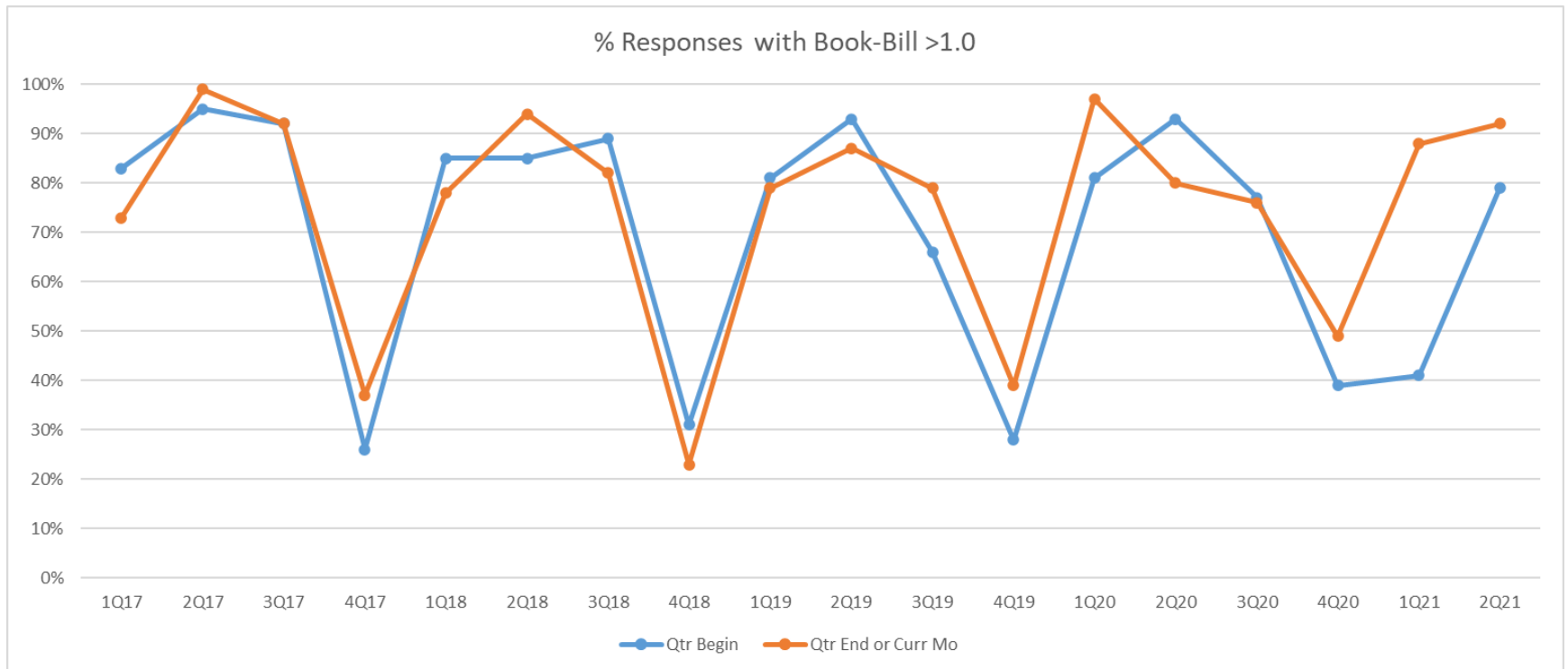


C3Q Bookings Expectations



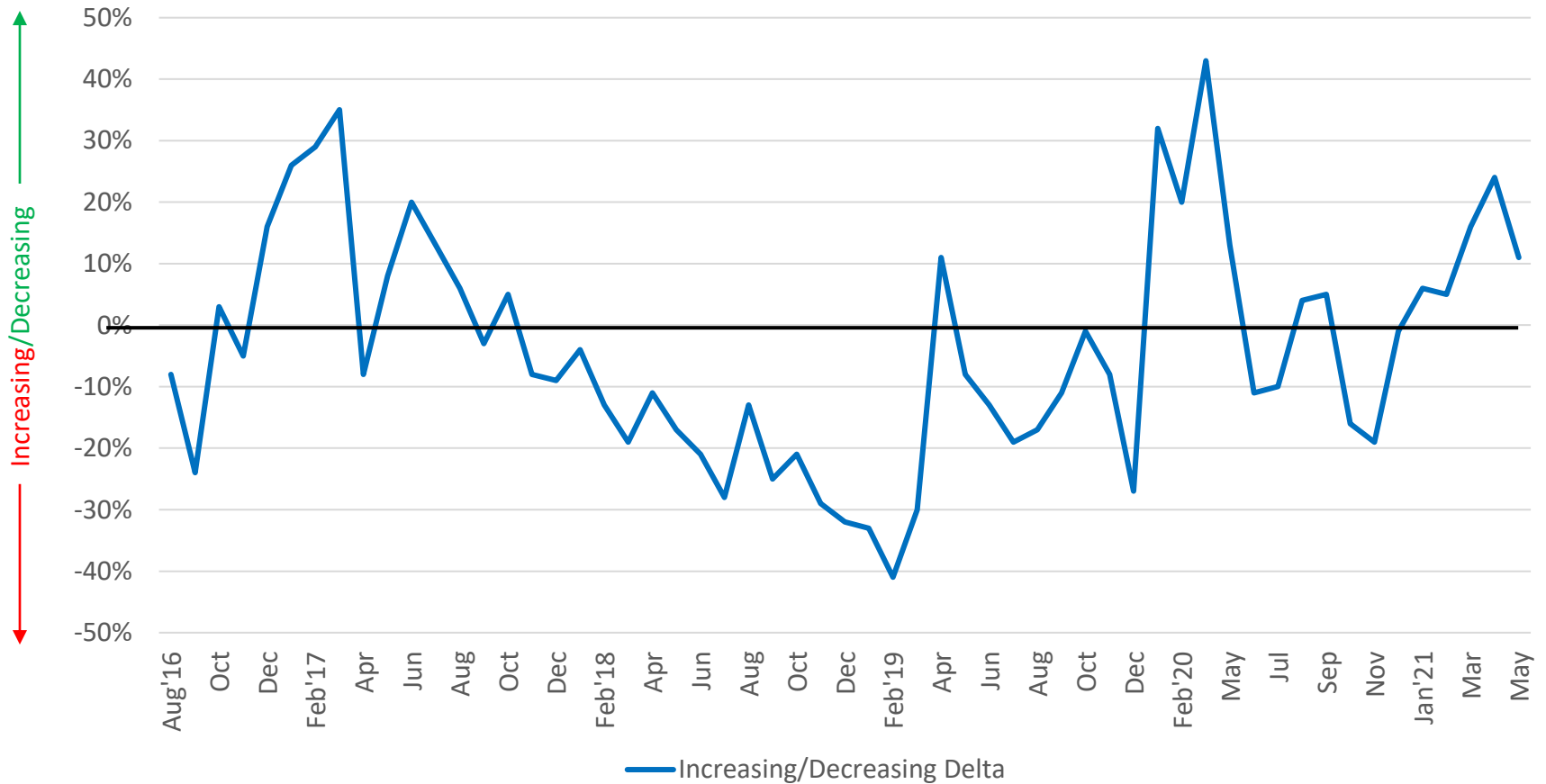
Book to Bill History & Trends

(Calendar quarters)



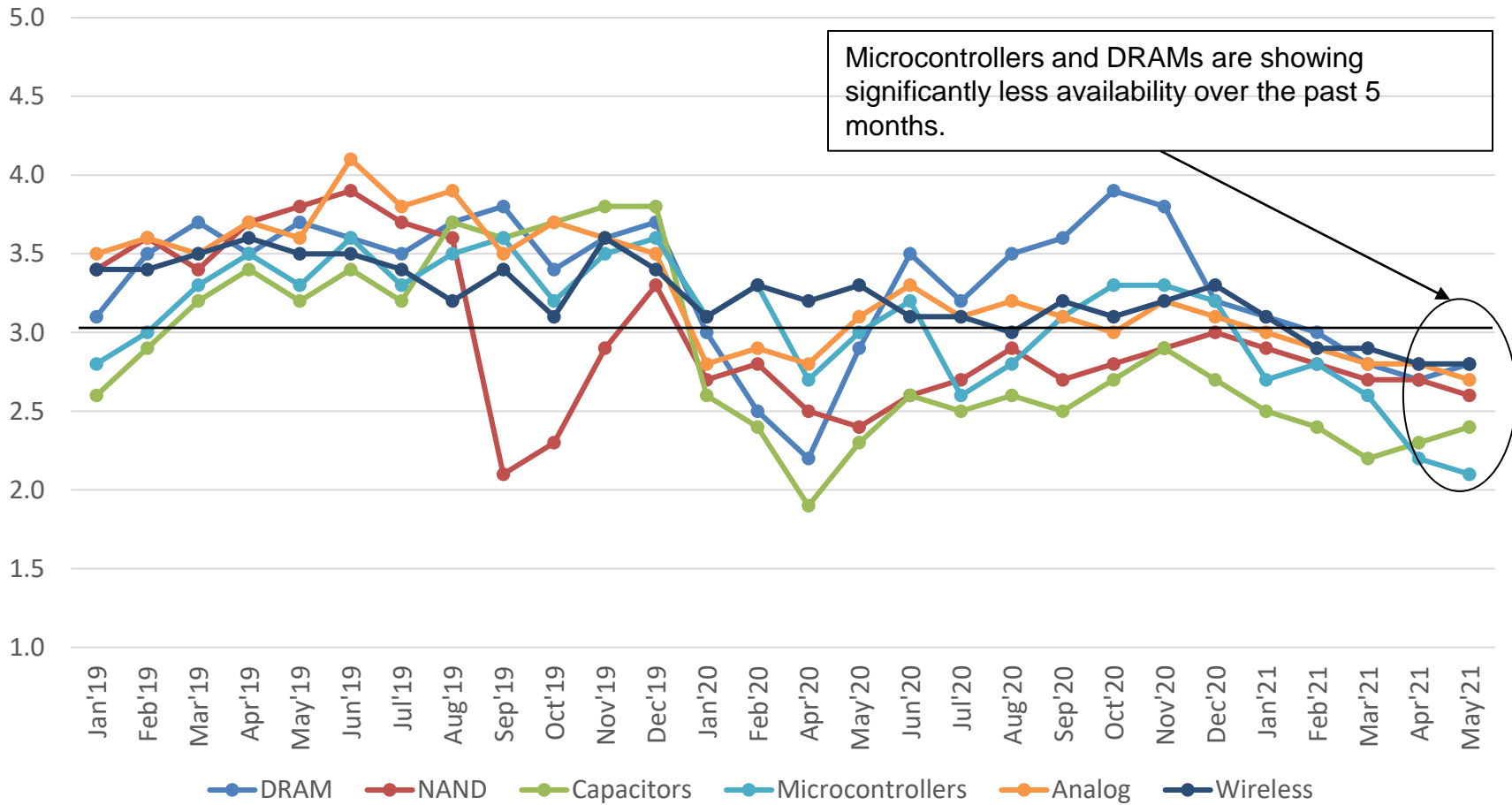
Backlog Order Cancellations vs. 30 Days Ago

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



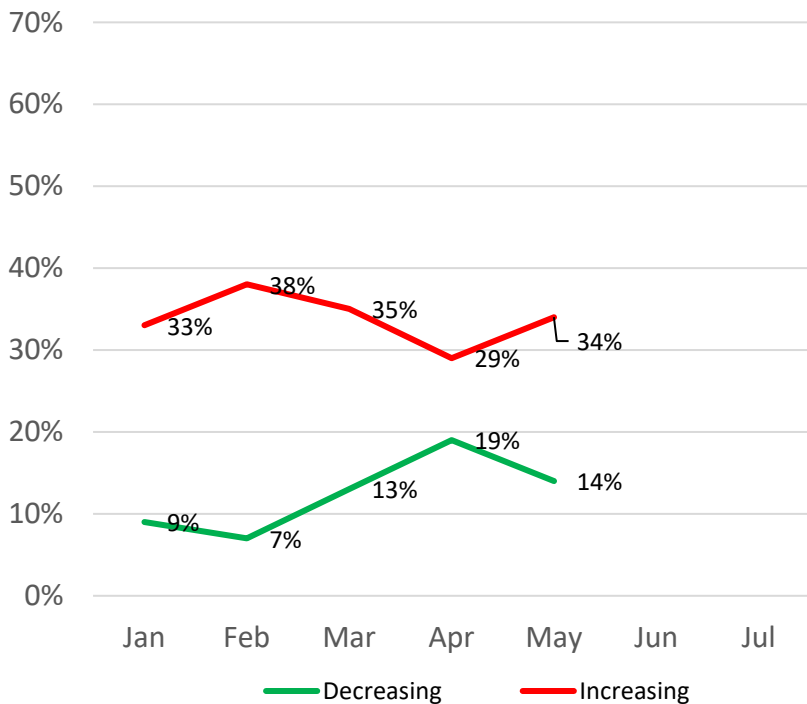
Inventory Status

(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?)

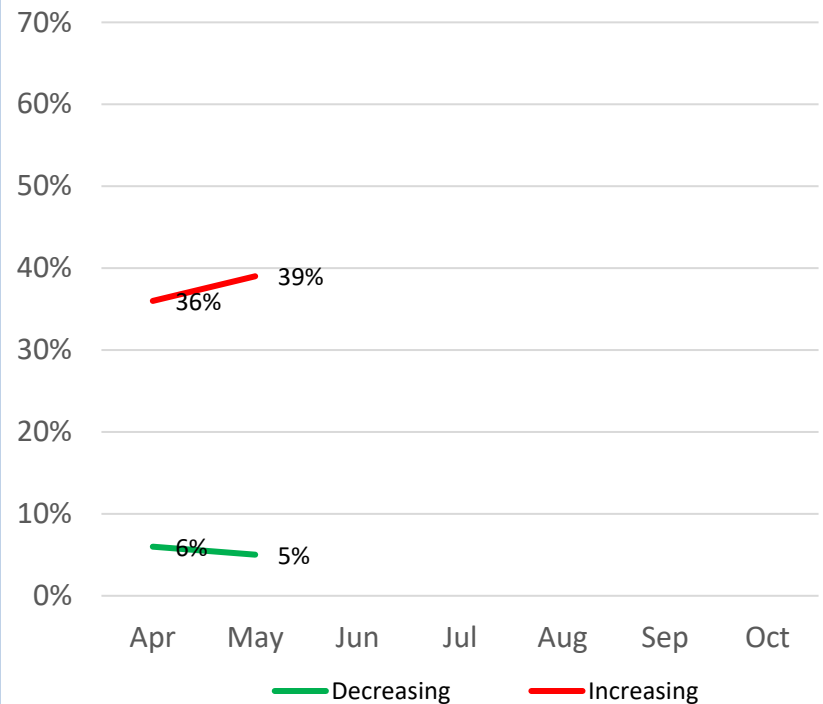


Q/Q Inventory Growth

C2Q21 Inventories vs. C1Q21

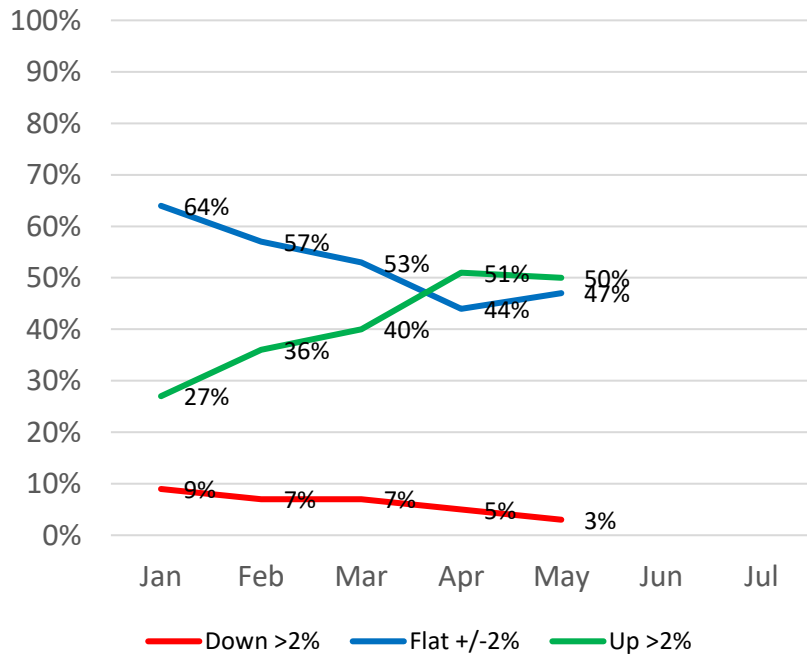


C3Q21 Inventories vs. C2Q21

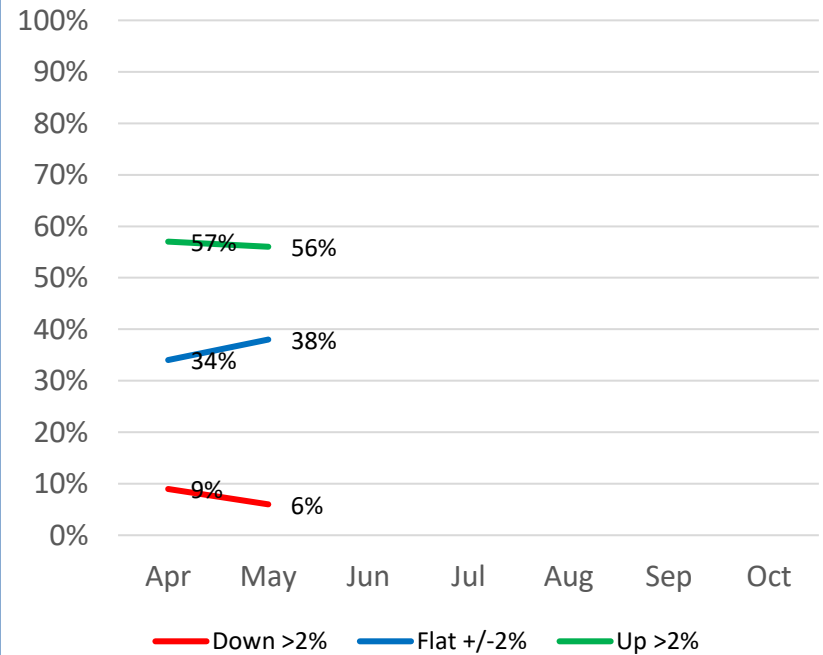


Q/Q Pricing Trends

C2Q21 Pricing vs. C1Q21



C3Q21 Pricing vs. C2Q21



Vertical Outlook

The outlook for Communications continues to be above previous years while Auto continues to erode

