



TPC Semiconductor Market Survey

April 13, 2021

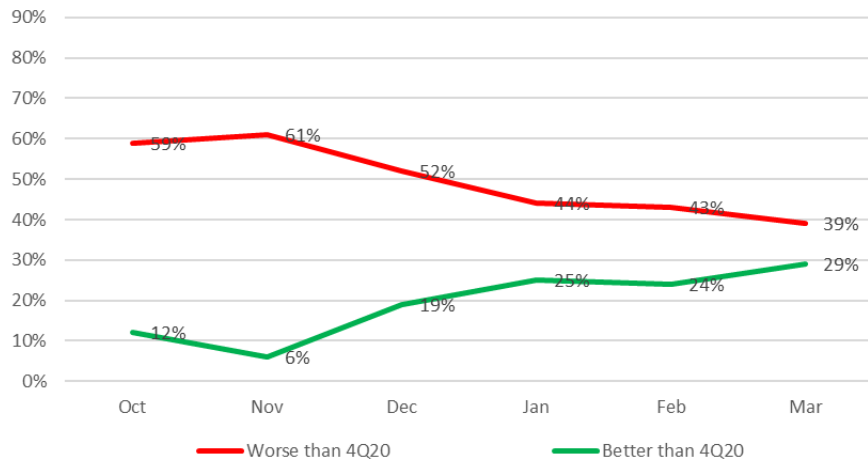
TPC March 2021 Survey Summary

*Survey Date: 4/7-9 Respondents: ~9,300 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 37%, Auto 21%, Comm 17%, Computing 22%, Mobile 32%, Data Ctr 21%, Other 15%*

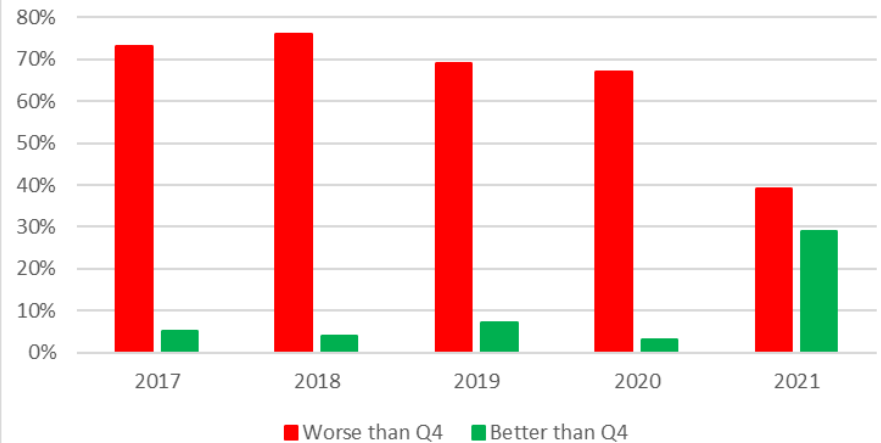
- We recently completed our monthly survey (~9,300 respondents) which continued to see improvements in both C1Q21 and C2Q21 growth expectations. Seasonality also continues to be much better than in the previous 4 years. The bookings outlook for C1Q also improved.
- End customers have become more comfortable with higher inventory levels (as well as wanting additional inventory in some products) due to product availability getting tighter. This is being driven by demand (especially in the Auto and Mobile sectors) being strong and will the thought it will likely remain strong throughout the year and into 1H22.
- The survey showed a growth outlook for C1Q21 improving vs. last month with 29% expecting q/q growth vs. 24% previously and only 39% see it as weaker vs. 44% last month. The C2Q outlook improved with 61% expecting q/q growth vs. 57% previously; while 17% see it as weaker vs. 14% last month.
- The survey showed improvement in bookings for C1Q21 with 33% expecting improving bookings vs. C4Q compared to 30% last month; while 7% now expect weaker bookings vs. 9% last month. Bookings outlook for C2Q21 decreased with 29% expecting improving bookings vs. C1Q compared to 44% last month, but roughly the same as the January data at 25%
- Backlog cancellation expectations (slide 7) continues to show decreasing cancellations over the past 4 months.
- Availability of critical parts continues to trend towards less availability especially in Micro Controllers and Capacitors.
- Pricing has been on a 3+ month trend of increasing due to tighter product availability, with C2Q responses indicating continued increases in pricing.

Q/Q Demand Growth Outlook

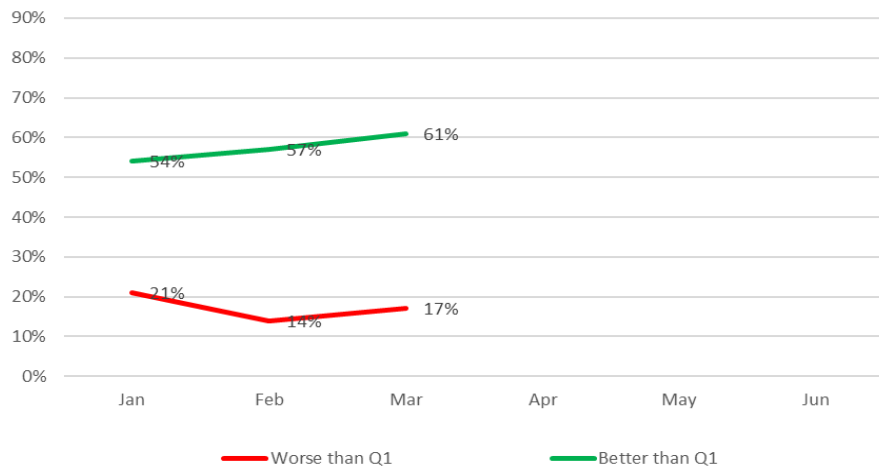
C1Q Growth Expectations



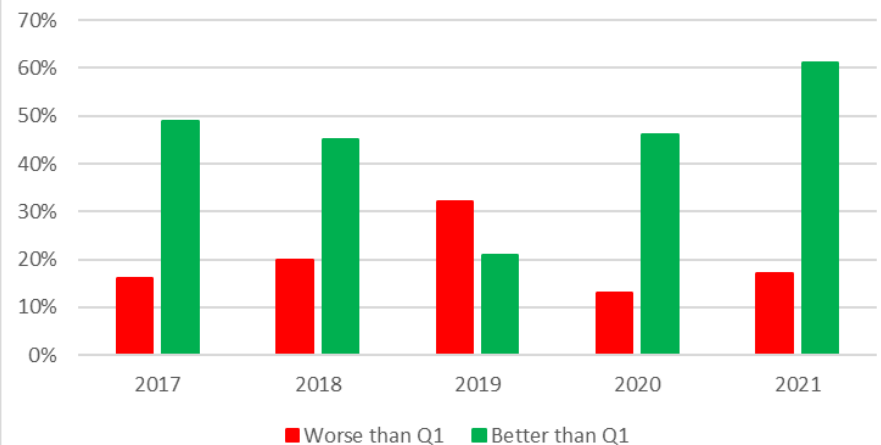
C1Q Growth Expectations vs. C4Q



C2Q Growth Expectations

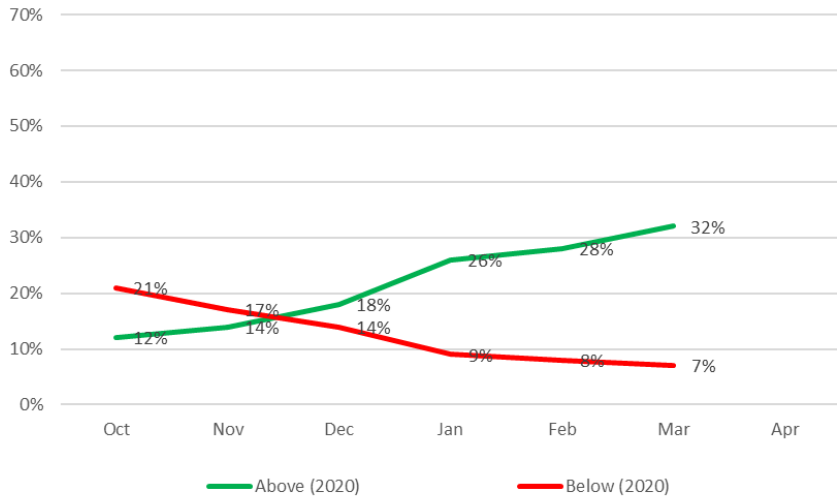


C2Q Growth Expectations vs. C1Q

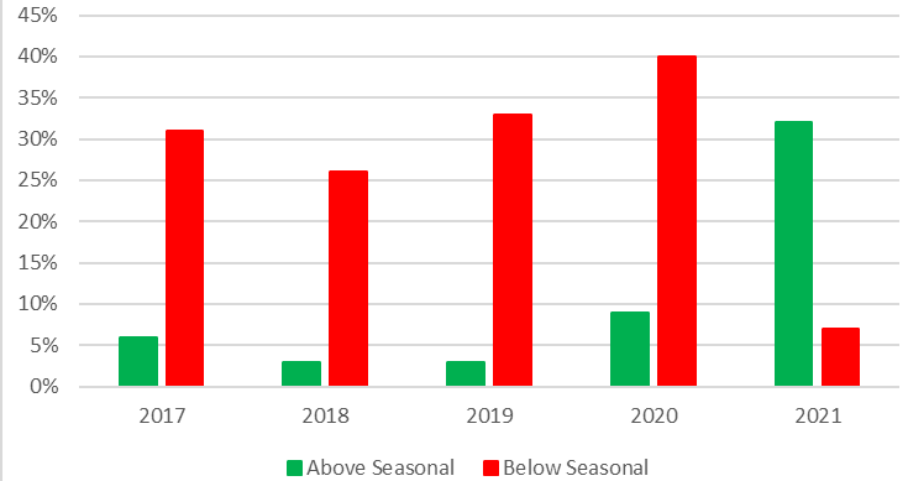


Q/Q Seasonality Expectations

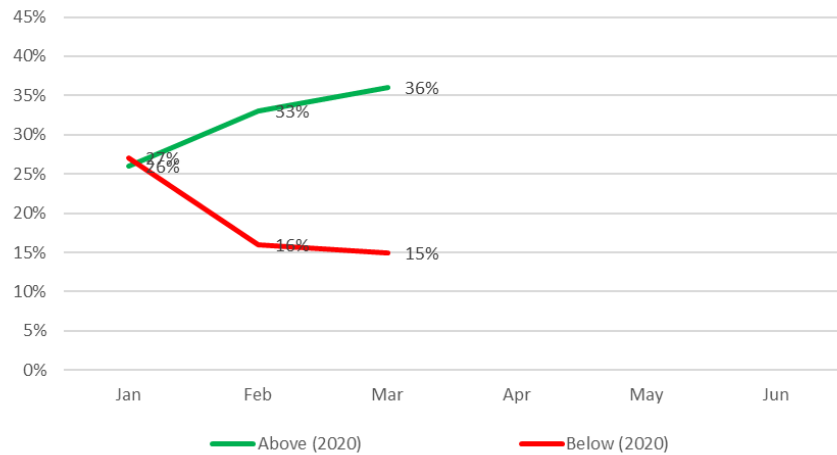
C1Q Seasonality Expectations



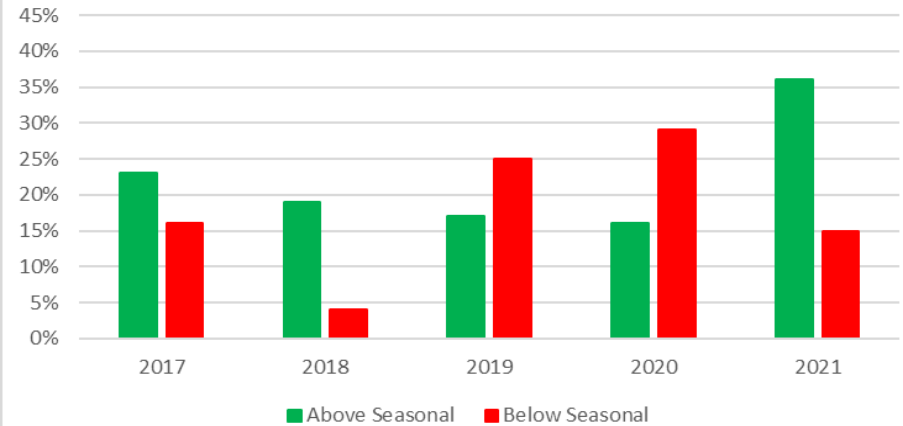
C1Q Seasonality Expectations



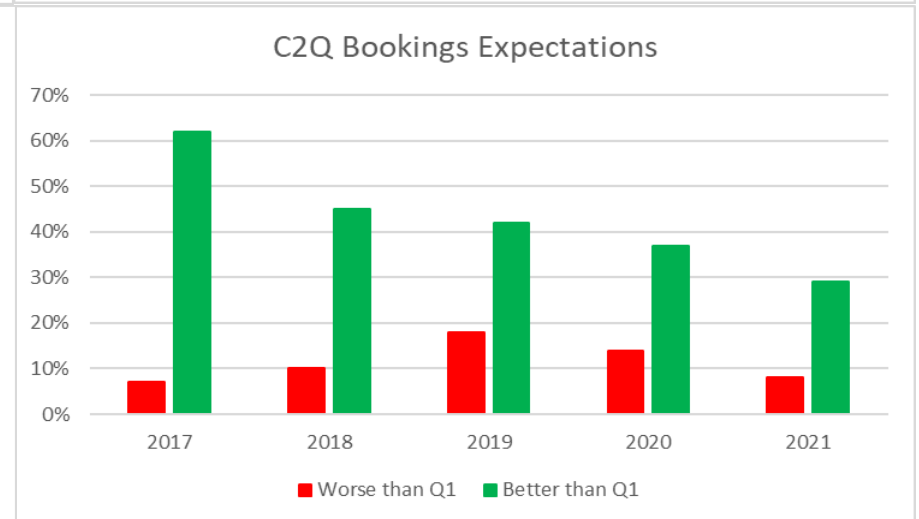
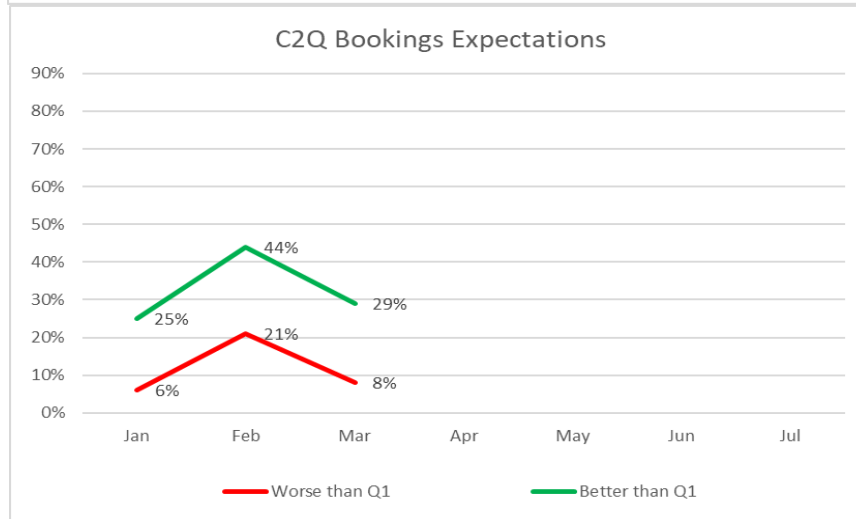
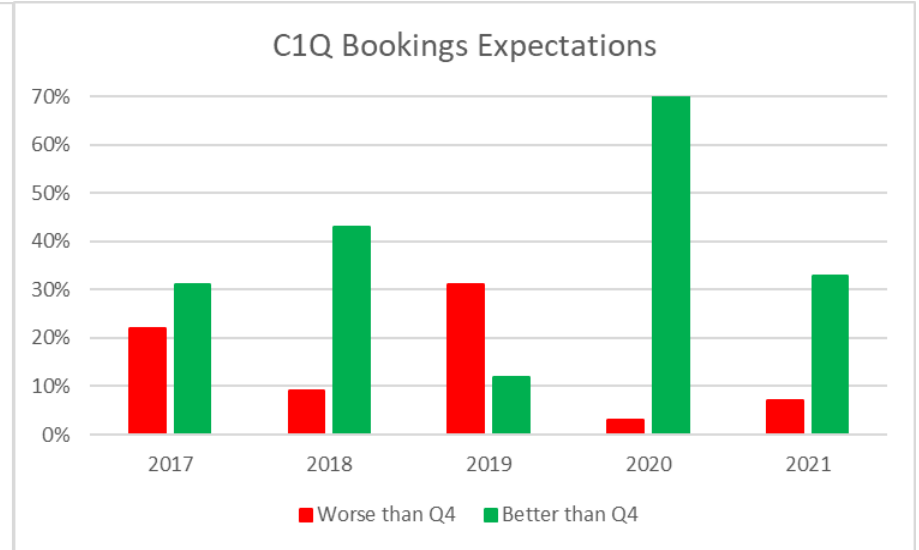
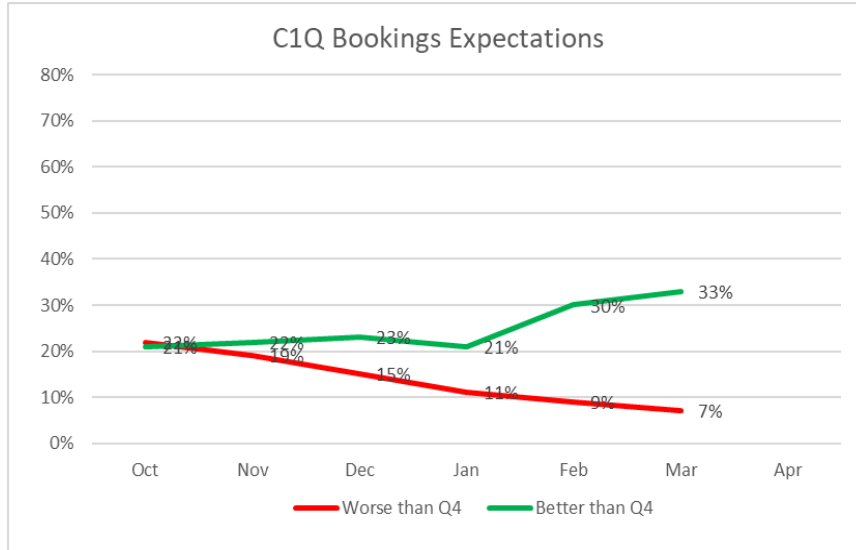
C2Q Seasonality Expectations



C2Q Seasonality Expectations

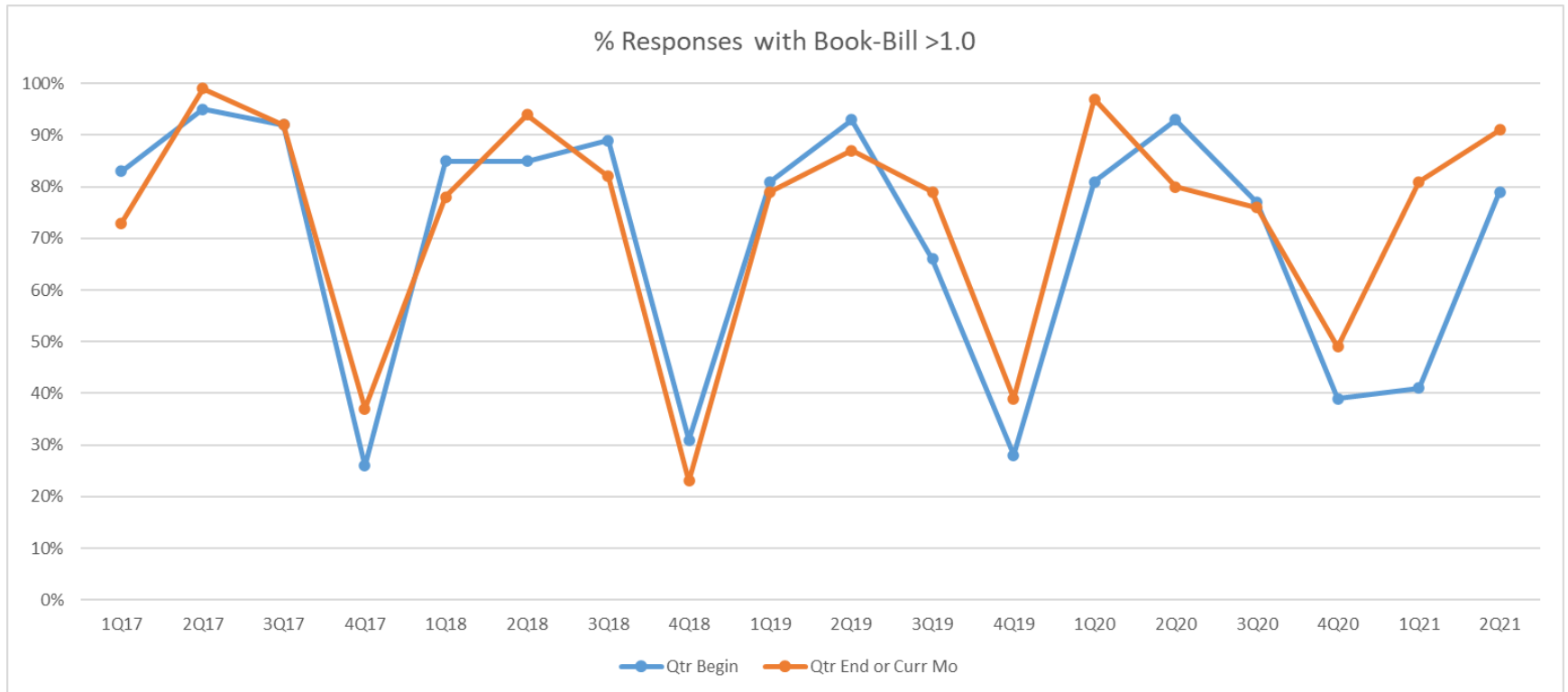


Q/Q Bookings Growth Expectations



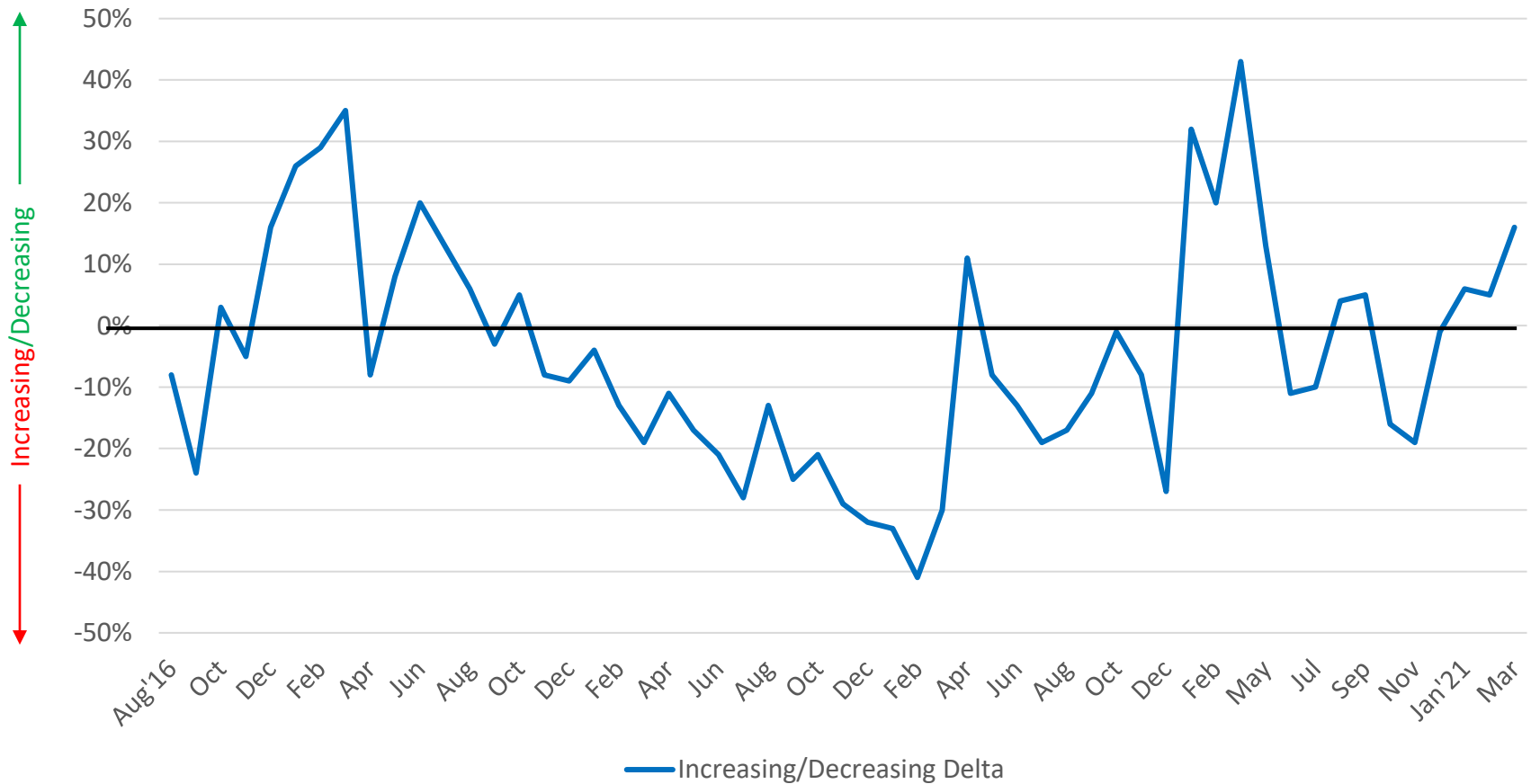
Book to Bill History & Trends

(Calendar quarters)



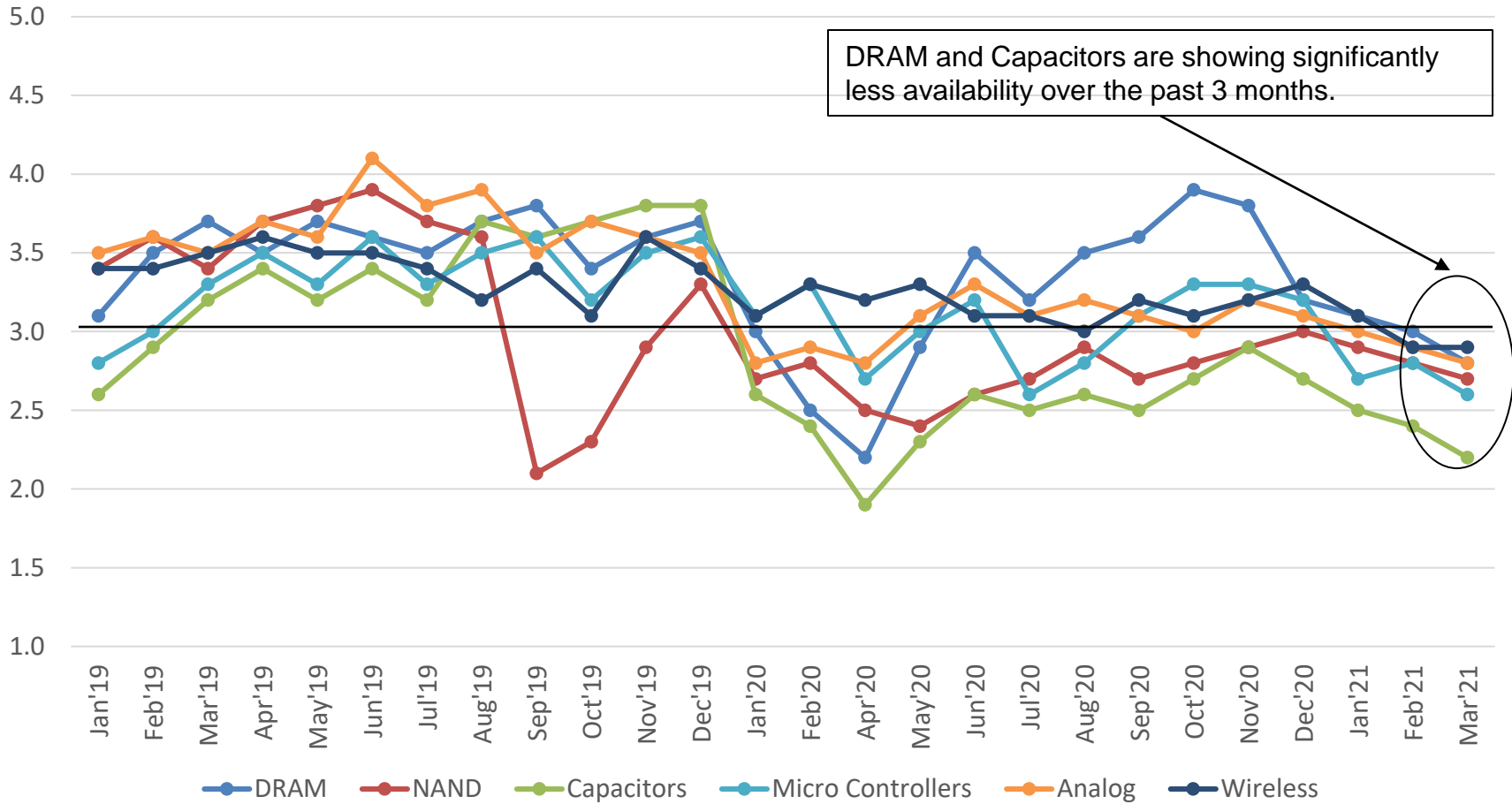
Backlog Order Cancellations vs. 30 Days Ago

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



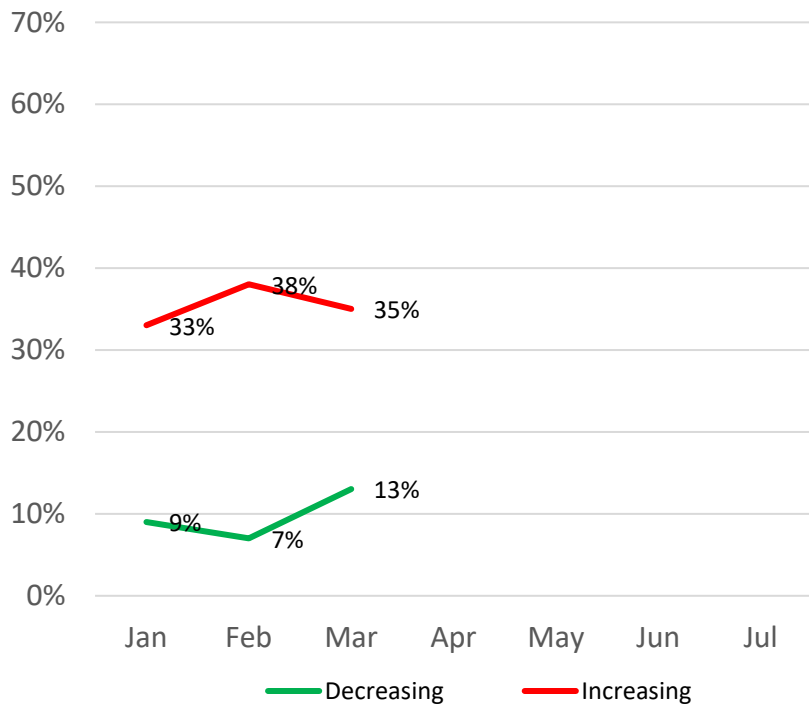
Inventory Status

(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?)

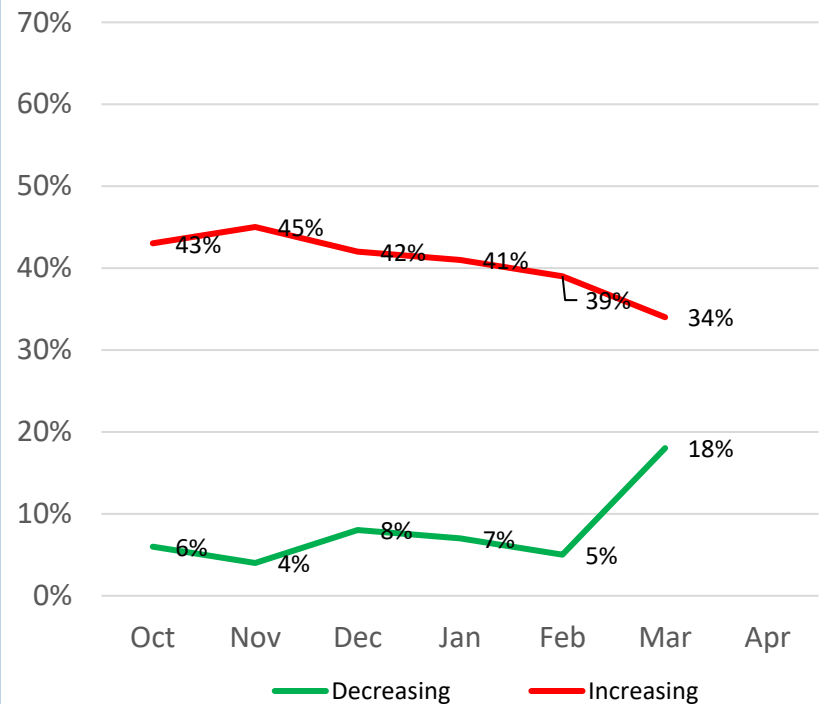


Q/Q Inventory Growth

C2Q21 Inventories vs. C1Q21

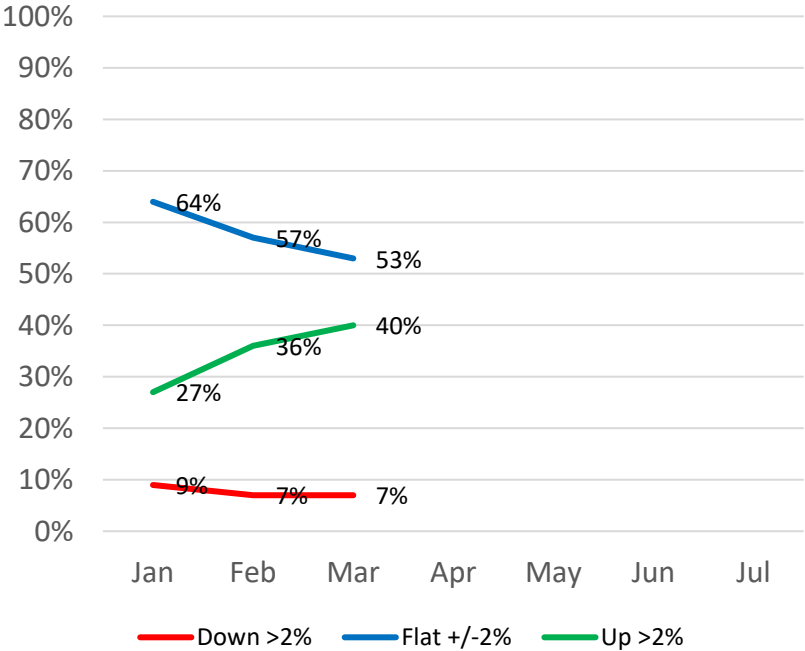


C1Q21 Inventories vs. C4Q20

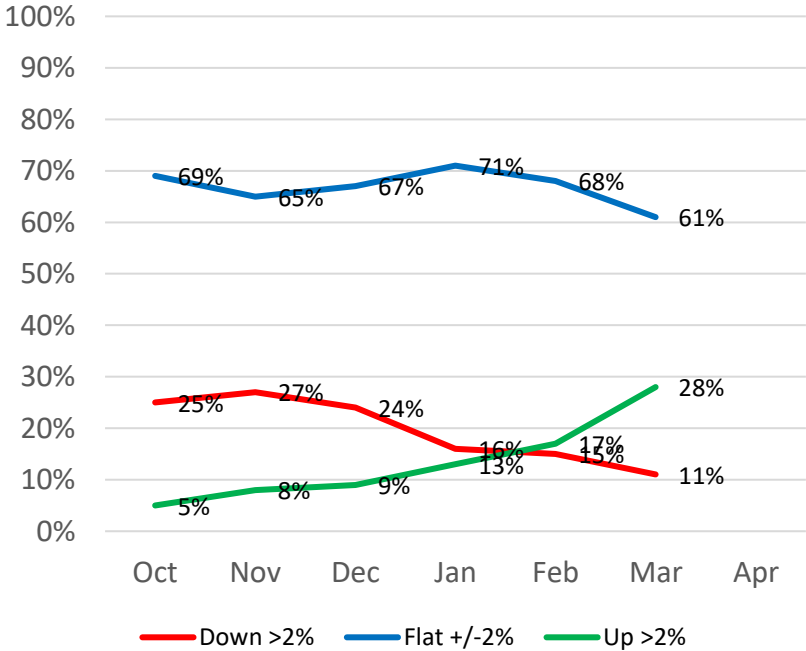


Q/Q Pricing Trends

C2Q21 Pricing vs. C1Q21



C1Q21 Pricing vs. C4Q20



Vertical Outlook

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

