

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**

**May 12, 2021**

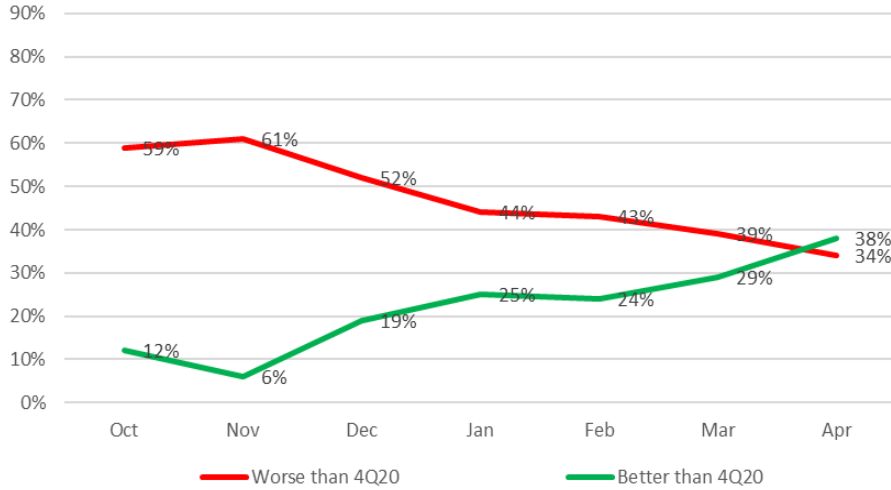
# TPC April 2021 Survey Summary

*Survey Date: 4/30-5/2 Respondents: ~9,900 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals  
Response Composition (multiple choices): Industrial 39%, Auto 20%, Comm 19%, Computing 18%, Mobile 32%, Data Ctr 19%, Other 13%*

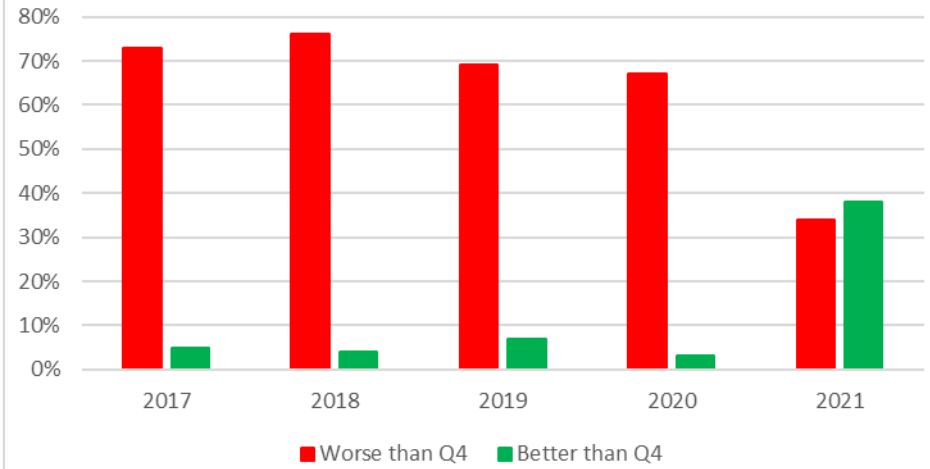
- We recently completed our monthly survey (~9,900 respondents) which continued to see improvements in C1Q21 growth and seasonality expectations. While C2Q's outlook did moderate slightly, the seasonality outlook for C2Q continues to be much better than in the previous 4 years. The bookings outlook for C1Q and C2Q also improved as an indicator of potential upside to demand in 2H.
- 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 38% expecting q/q growth vs. 29% previously and only 34% see it as weaker vs. 39% last month. The C2Q outlook decreased with 55% expecting q/q growth vs. 61% previously; while only 19% see it as weaker vs. 17% last month.
- The survey showed a slight improvement in bookings for C1Q21 with 34% expecting improving bookings vs. C4Q compared to 33% last month; while 7% now expect weaker bookings vs. 7% last month. Bookings outlook for C2Q21 improved as well with 35% expecting improving bookings vs. C1Q compared to 29% 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 and DRAM.
- 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

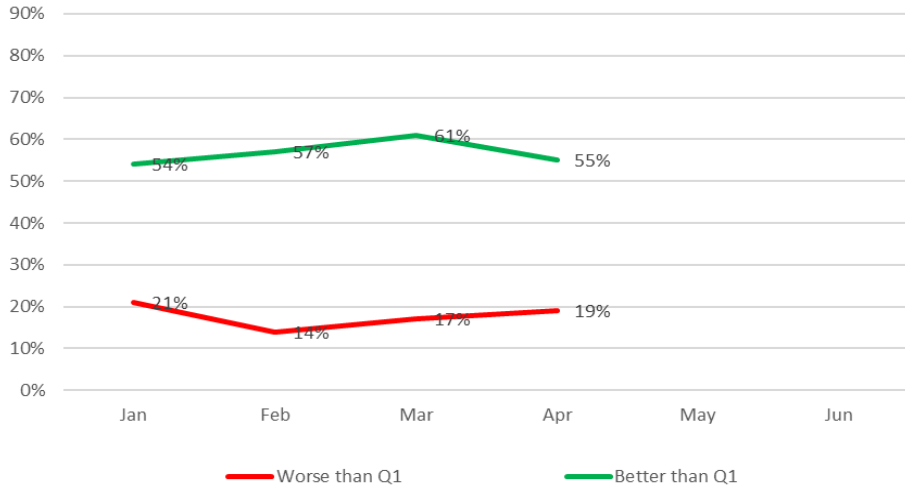
## C1Q Growth Expectations



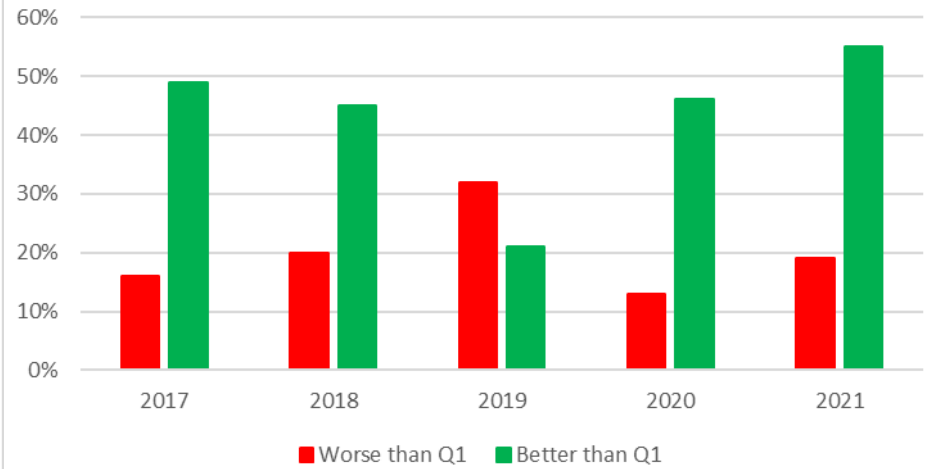
## C1Q Growth Expectations vs. C4Q



## C2Q Growth Expectations

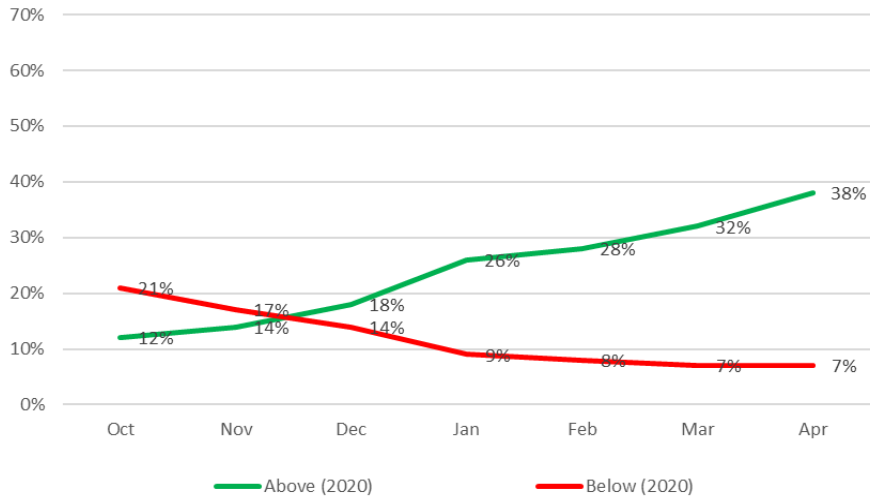


## C2Q Growth Expectations vs. C1Q

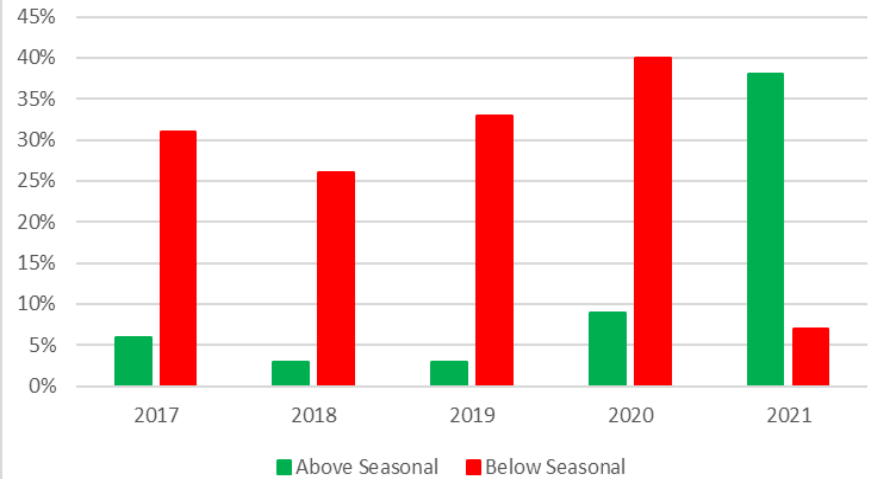


# Q/Q Seasonality Expectations

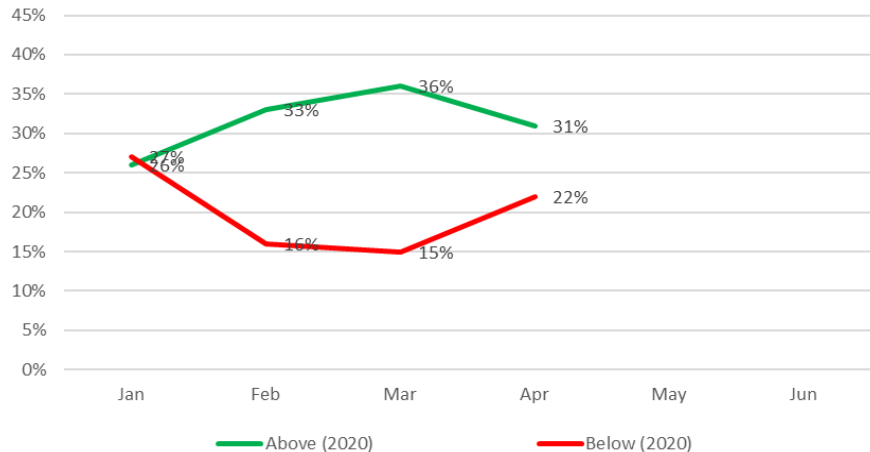
## C1Q Seasonality Expectations



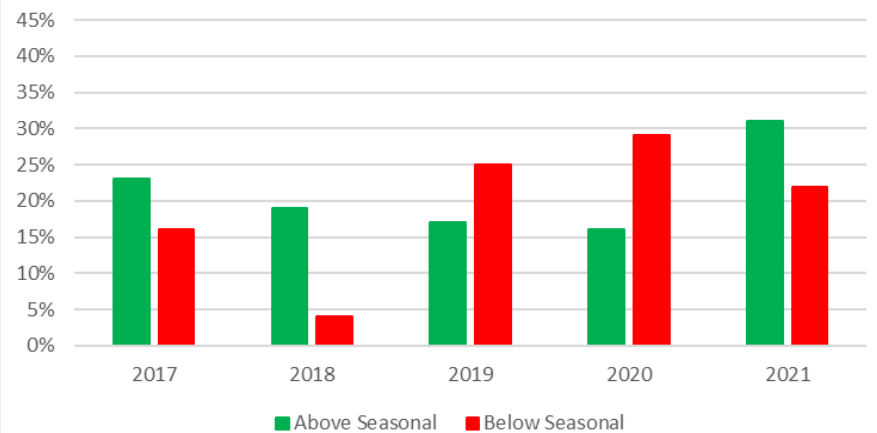
## C1Q Seasonality Expectations



## C2Q Seasonality Expectations

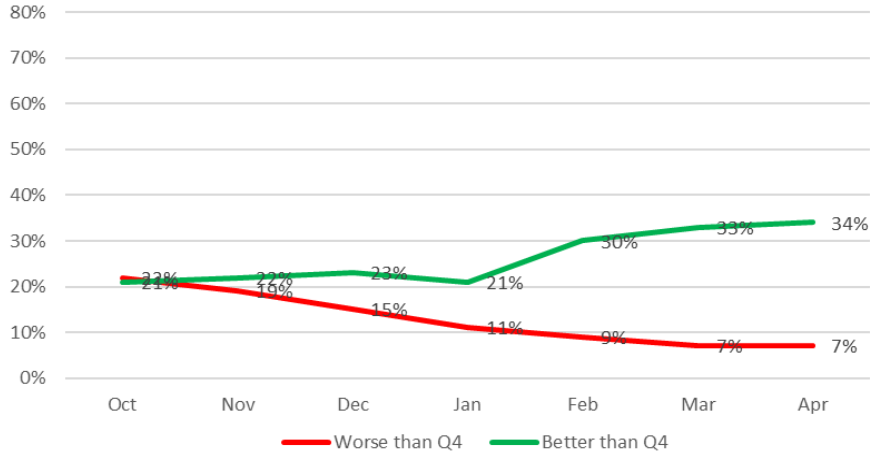


## C2Q Seasonality Expectations

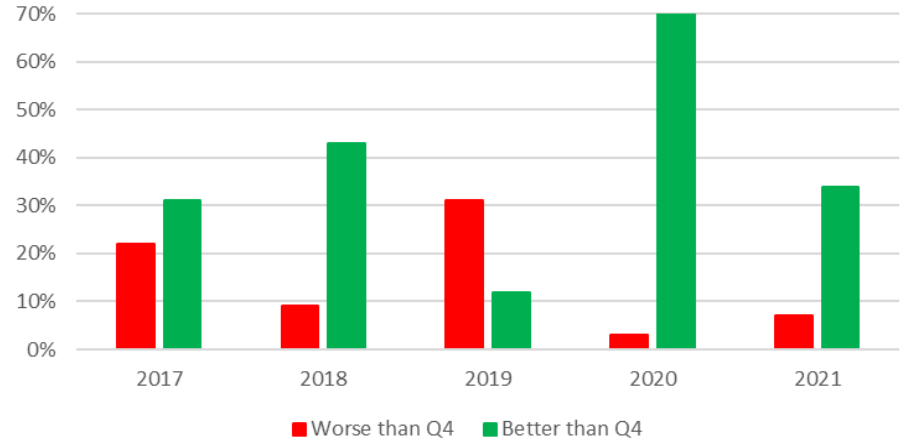


# Q/Q Bookings Growth Expectations

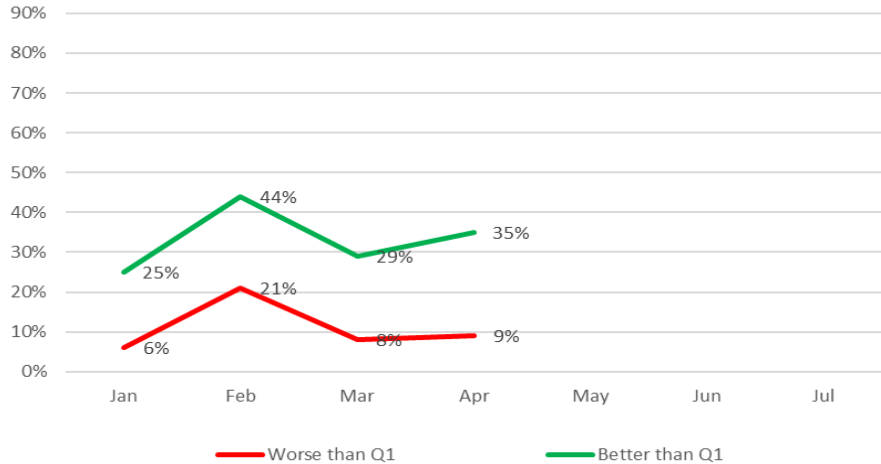
C1Q Bookings Expectations



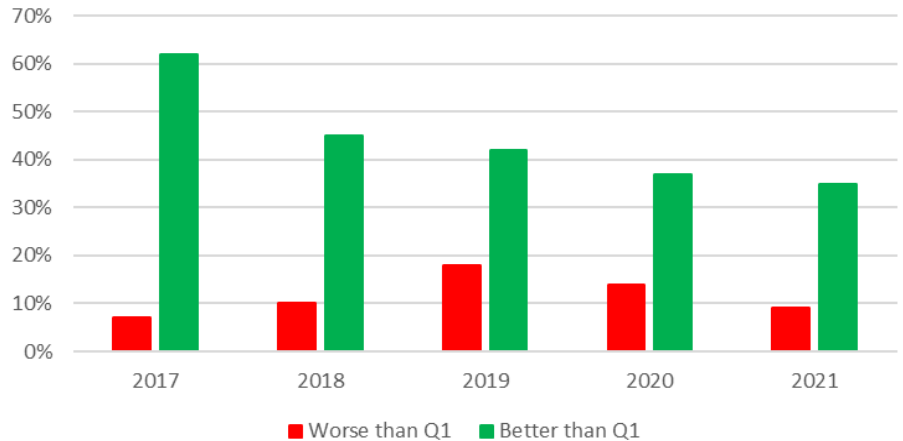
C1Q Bookings Expectations



C2Q Bookings Expectations

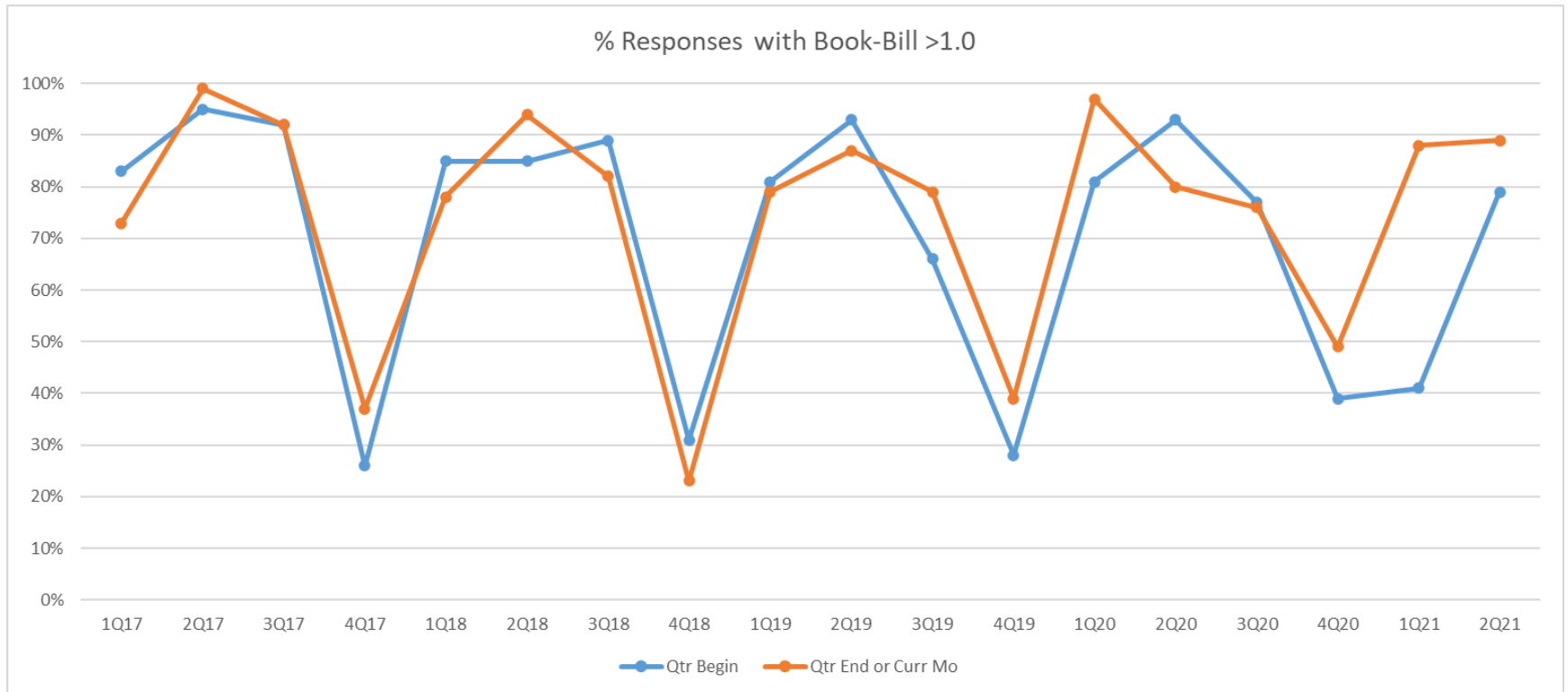


C2Q Bookings Expectations



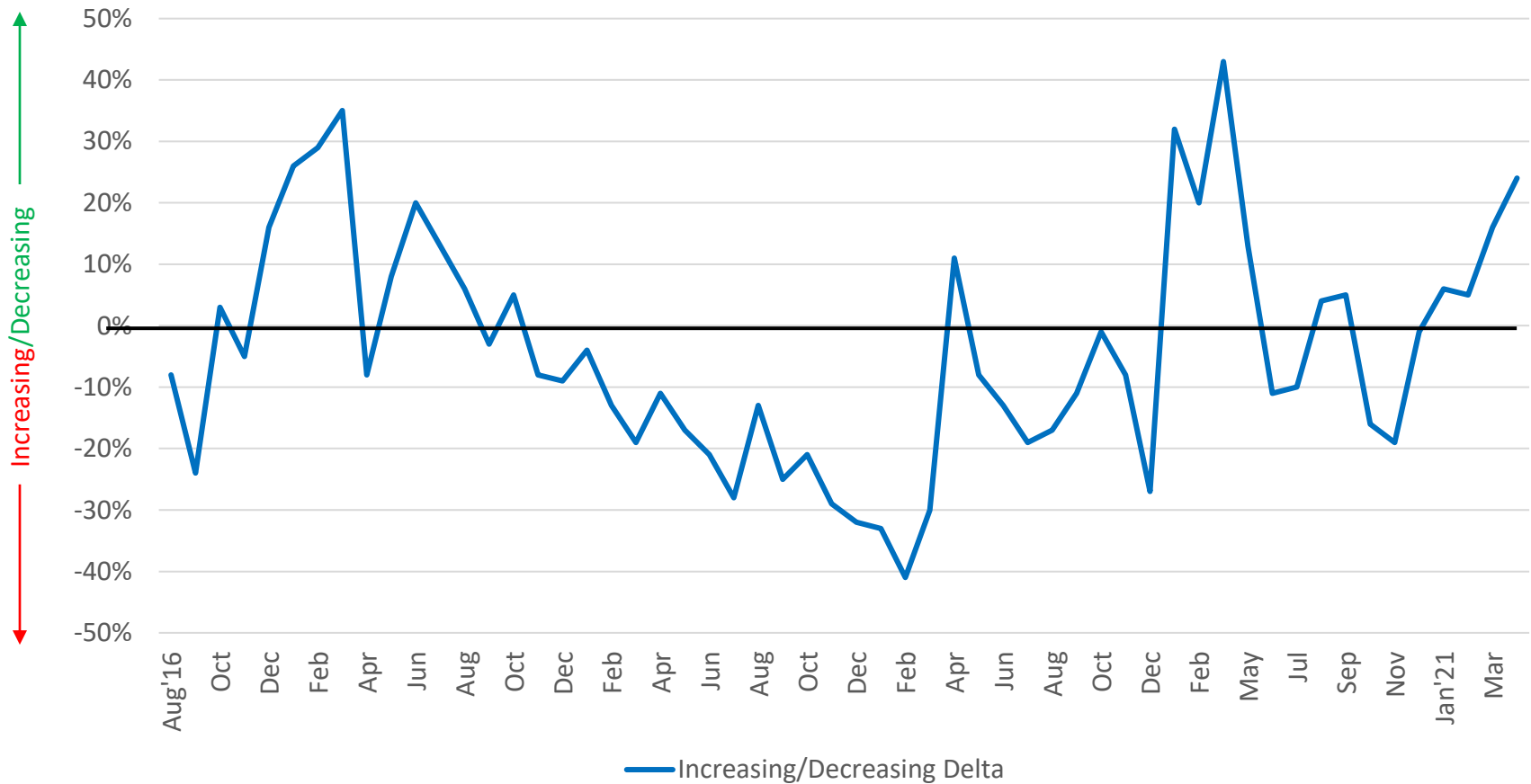
# Book to Bill History & Trends

(Calendar quarters)



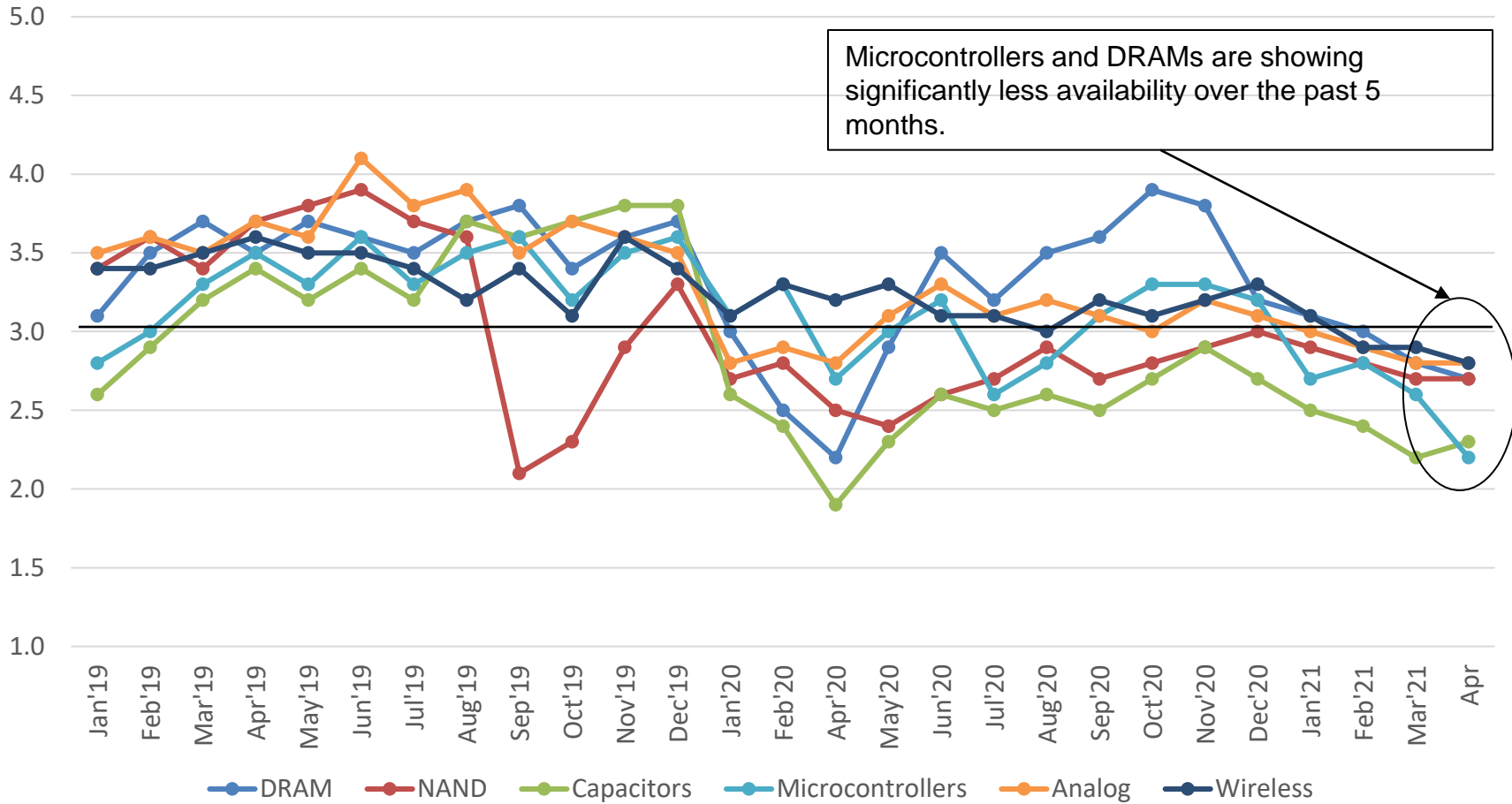
# Backlog Order Cancellations vs. 30 Days Ago

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



# Inventory Status

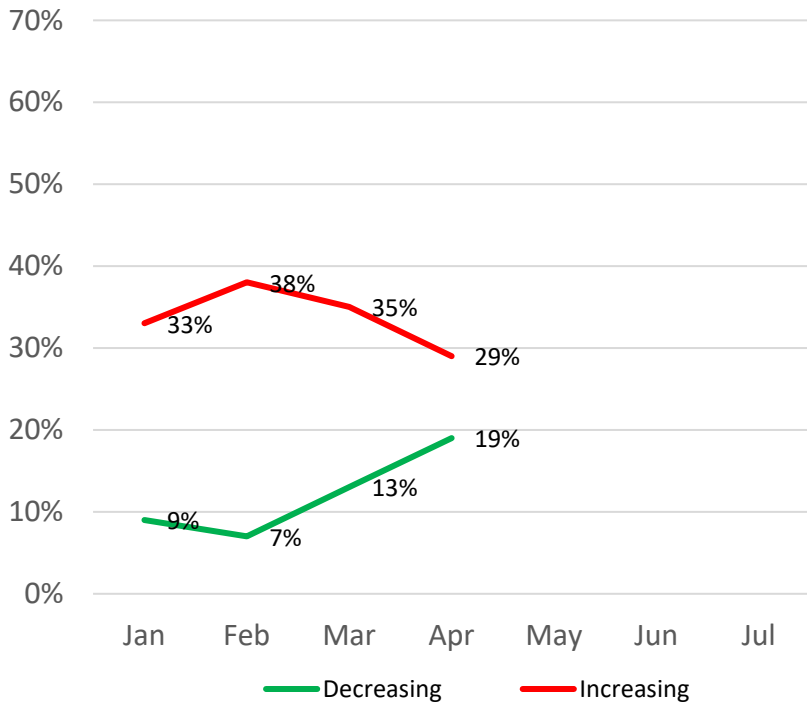
(Using a scale of 1 to 5 with 1 being extremely low inventory, 3 being the normal amount, and 5 being extremely high; how do you view inventory levels for the following products?)



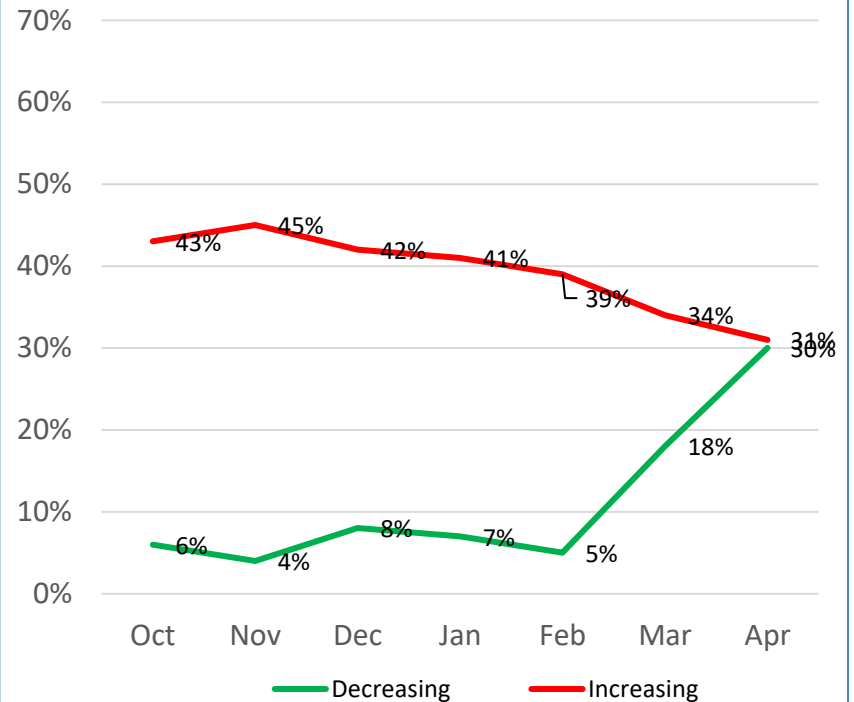


# Q/Q Inventory Growth

## C2Q21 Inventories vs. C1Q21

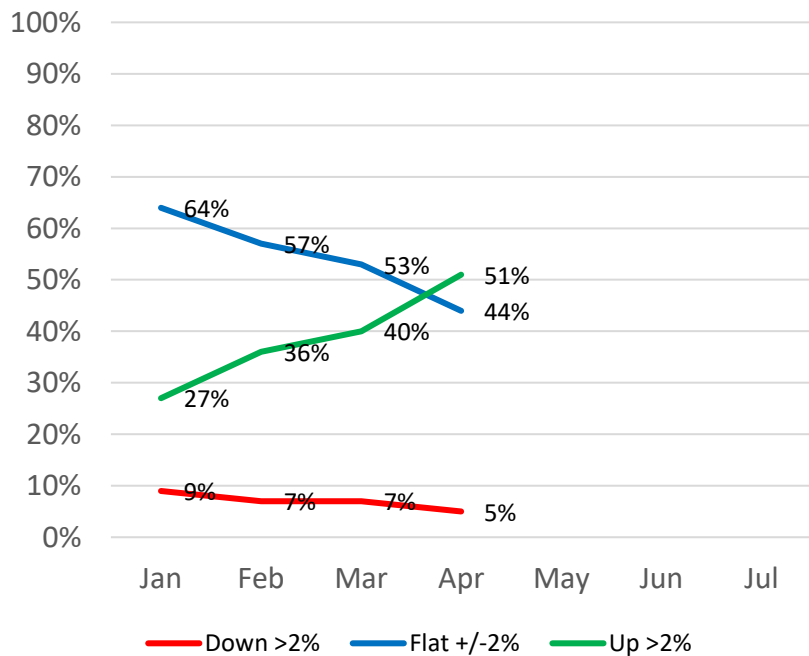


## C1Q21 Inventories vs. C4Q20

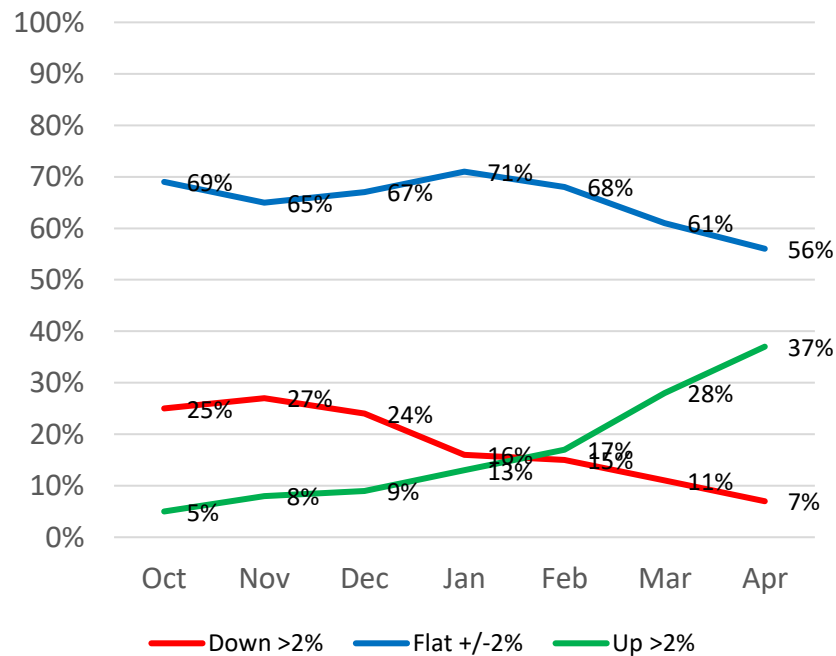


# Q/Q Pricing Trends

## 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*

