



TPC Semiconductor Market Survey

January 17, 2023

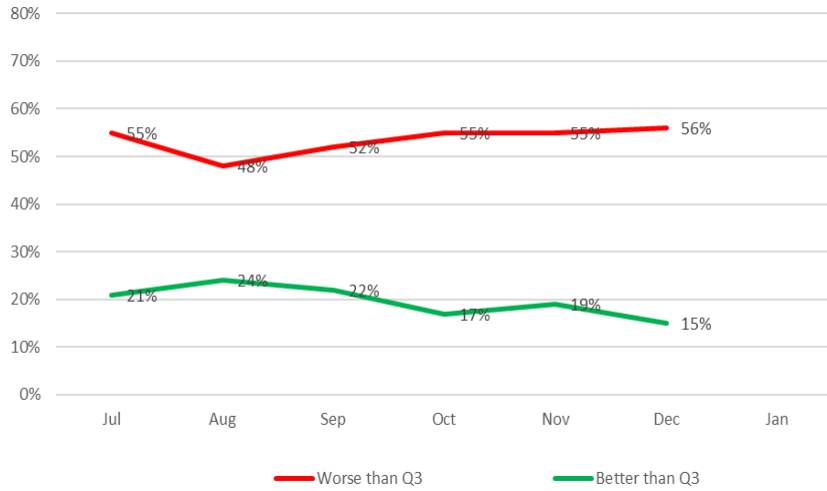
TPC December/January 2022 Survey Summary

*Survey Date: 1/4-11 Respondents: ~6,700 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 39%, Auto 22%, Comm 19%, Computing 18%, Mobile 27%, Data Ctr 19%, Other 18%*

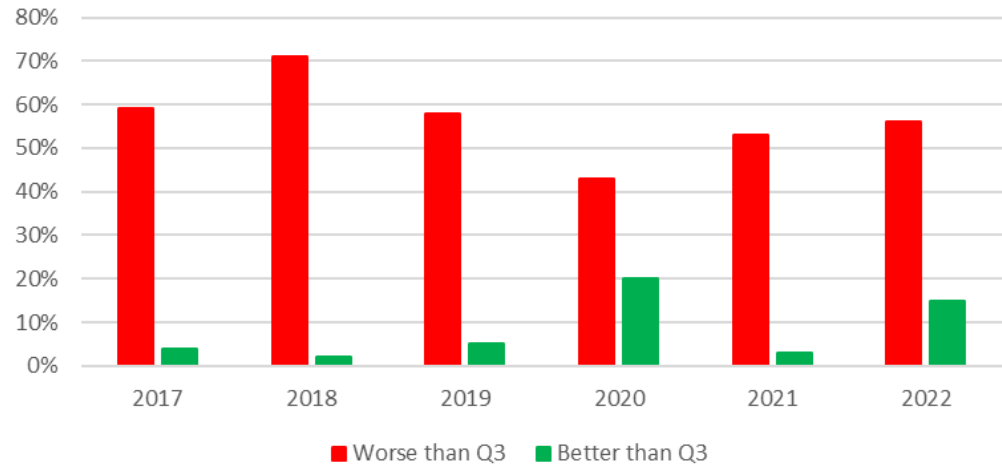
- We recently completed our monthly survey (~8,200 respondents) which saw a little weakening in C4Q22's growth and seasonality; while C1Q23's outlook also showed weakening for both. The bookings outlook for C4Q was little changed while C1Q was slightly improved vs. last month's survey.
- The survey showed C4Q22 outlook decreased vs. last month; with 15% expecting q/q growth vs. 19% previously; while 56% see it as weaker vs. 55% last month.
- The survey showed C1Q23 improved vs. last month with 5% seeing the quarter being better vs. 8% previously; while 57% see it as worse vs. 61% last month.
- Backlog cancellation expectations (slide 7) continues to show slightly weaker trends and is 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.
- Inventories growth outlook (slide 9) showed worsening trends vs. last month for C4Q; with C1Q's outlook remaining the same vs. last month.
- The survey also shows pricing (slide 10) slightly worse (63% see C1Q down >2% q/q vs. 61% last month).

Q/Q Demand Growth Outlook

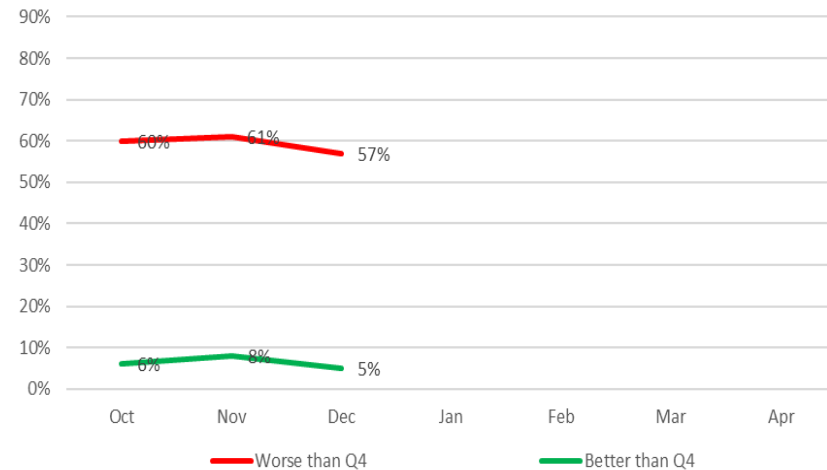
4Q22 Growth Expectations



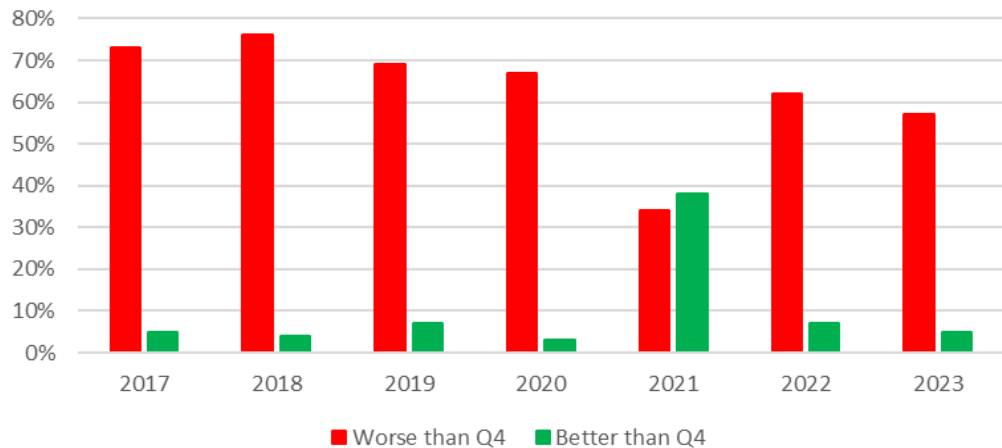
C4Q Growth Expectations



C1Q22 Growth Expectations

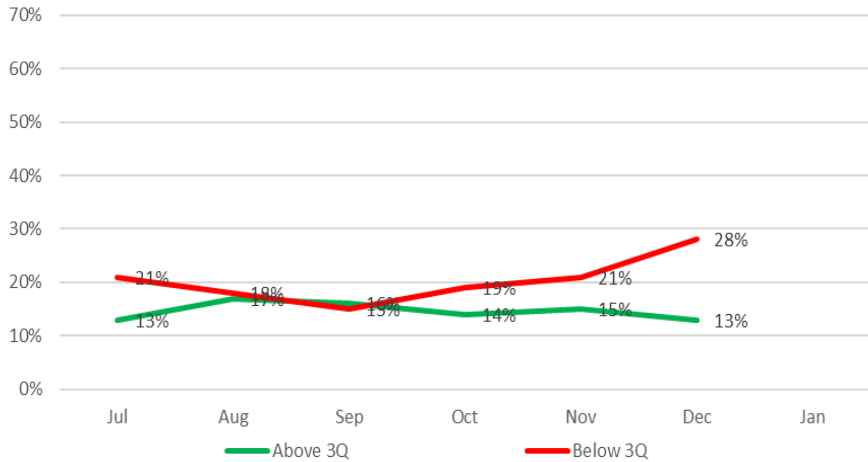


C1Q Growth Expectations vs. C4Q

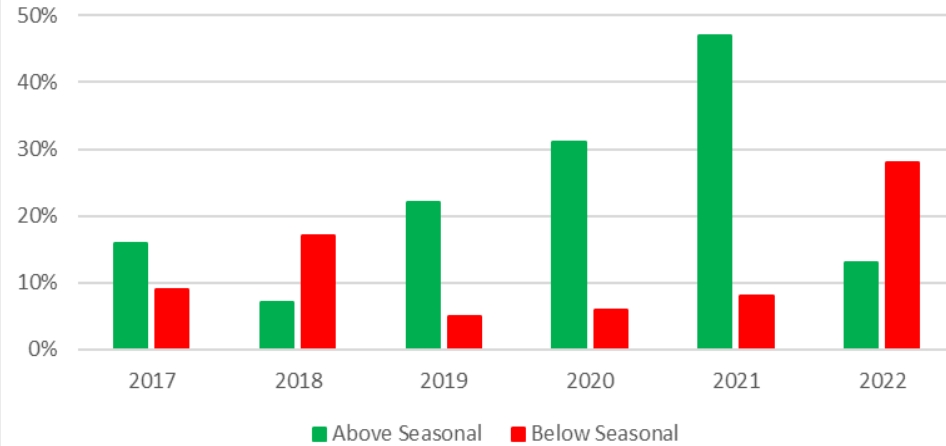


Q/Q Seasonality Expectations

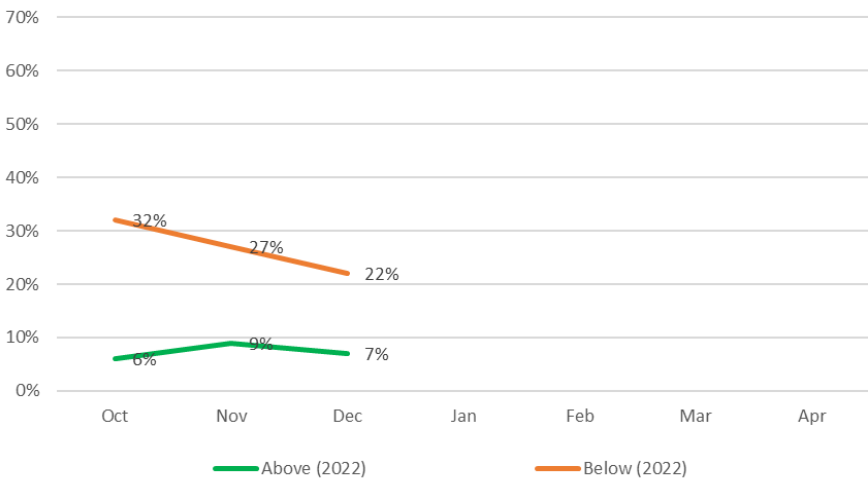
4Q22 Seasonality Expectations



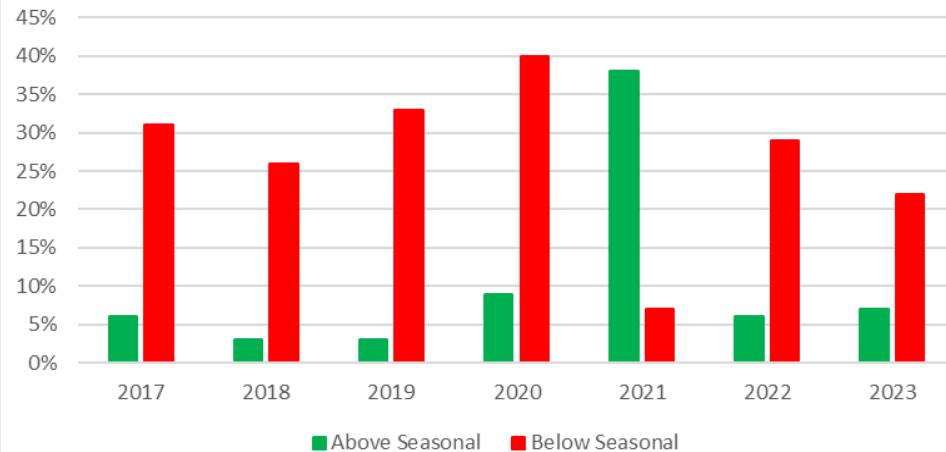
C4Q Seasonality Expectations



C1Q22 Seasonality Expectations

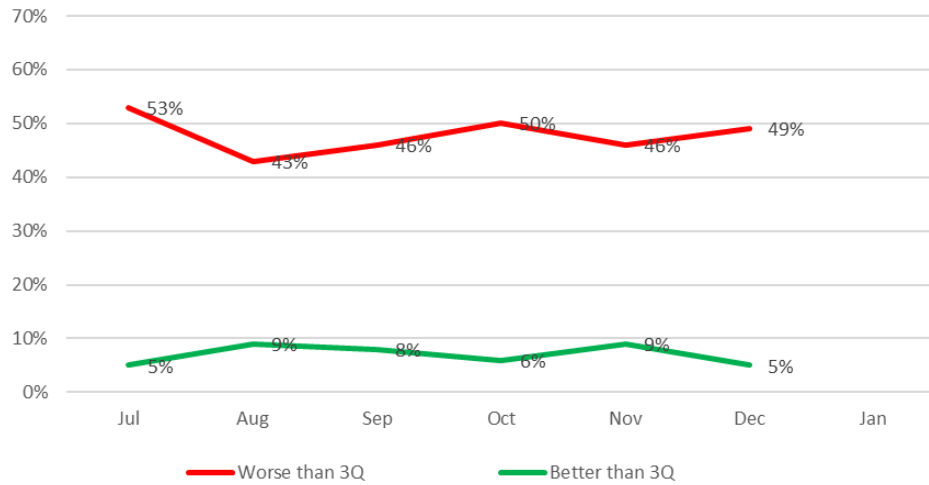


C1Q Seasonality Expectations

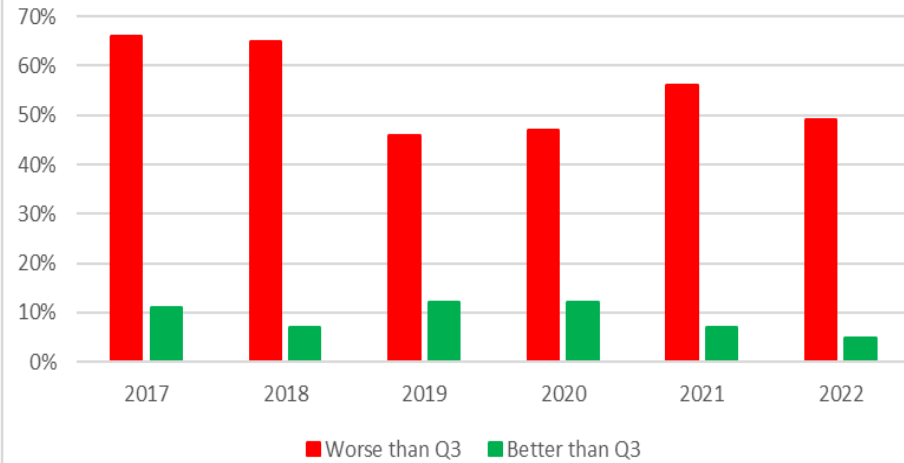


Q/Q Bookings Growth Expectations

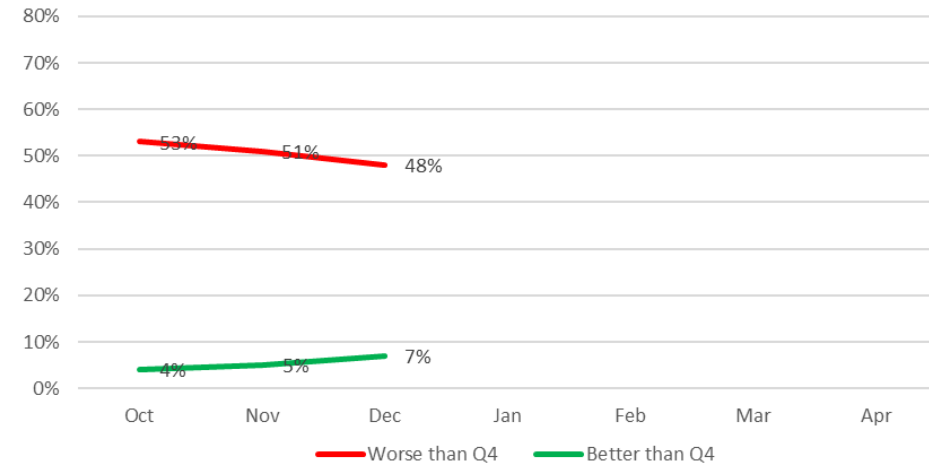
4Q22 Bookings Expectations



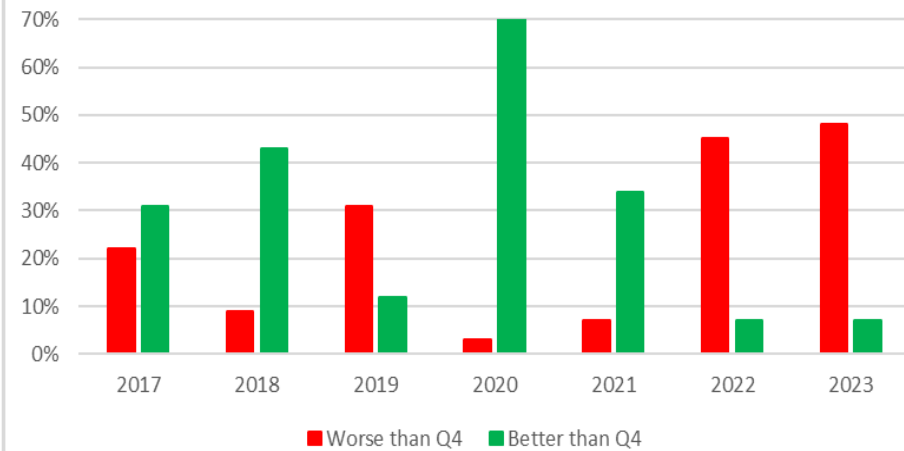
C4Q Bookings Expectations



C1Q22 Bookings Expectations



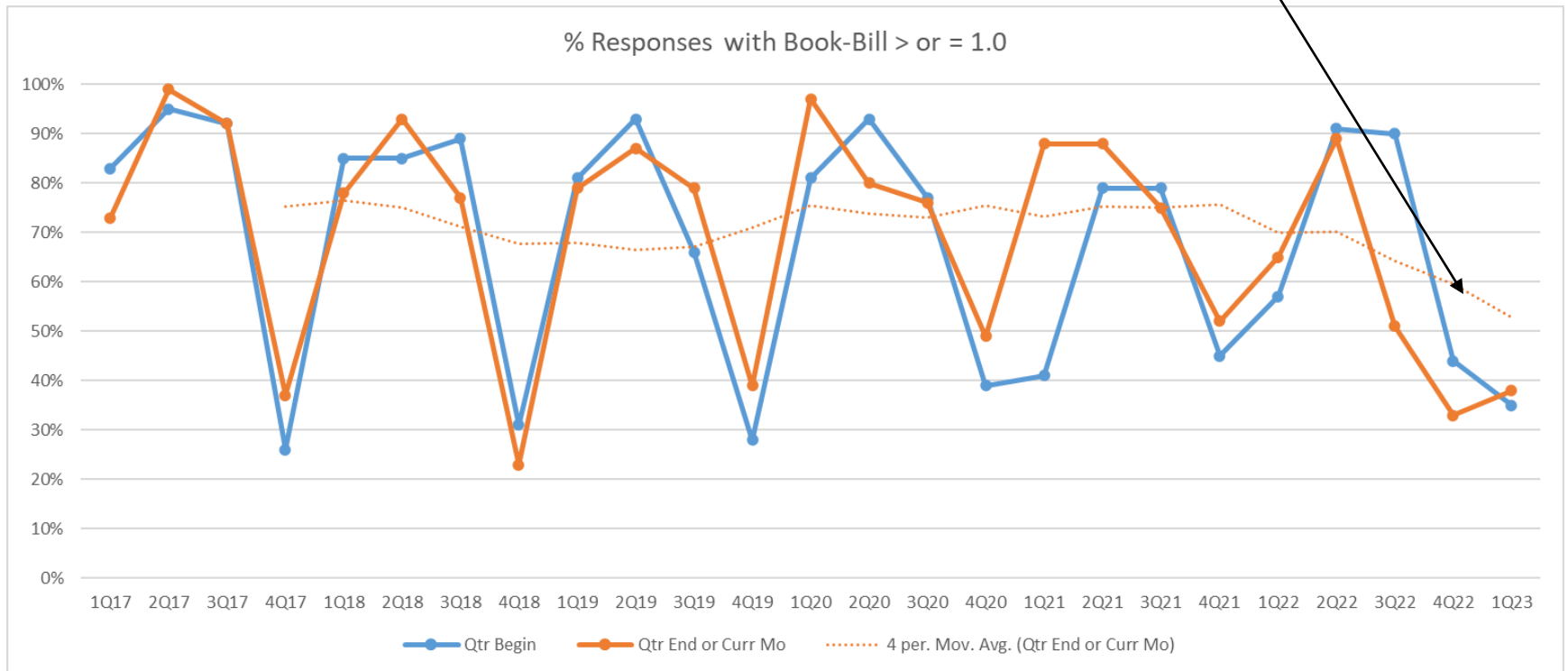
C1Q Bookings Expectations



Book to Bill History & Trends

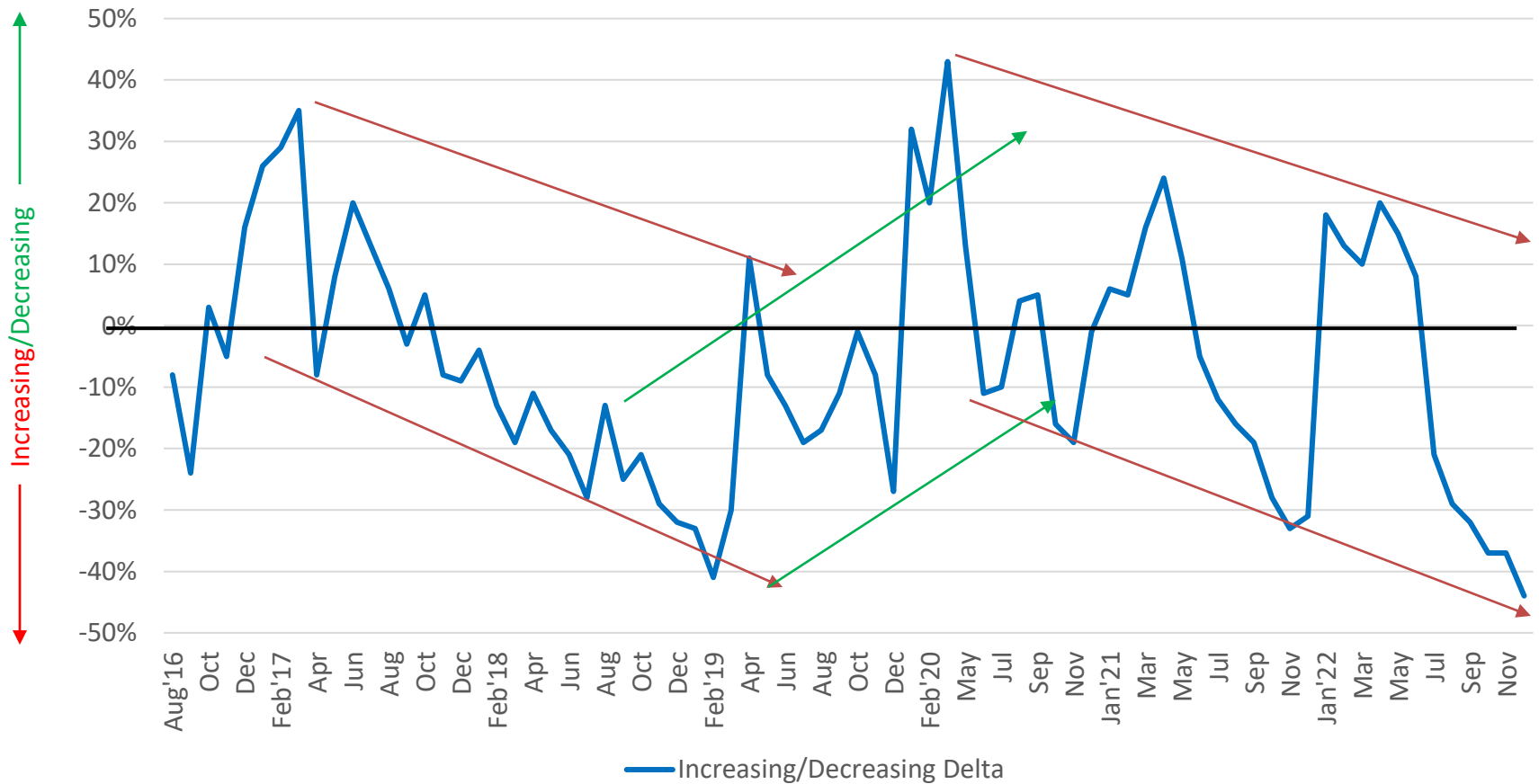
(Calendar quarters)

End of month trendline decreasing over last 4 qtrs.



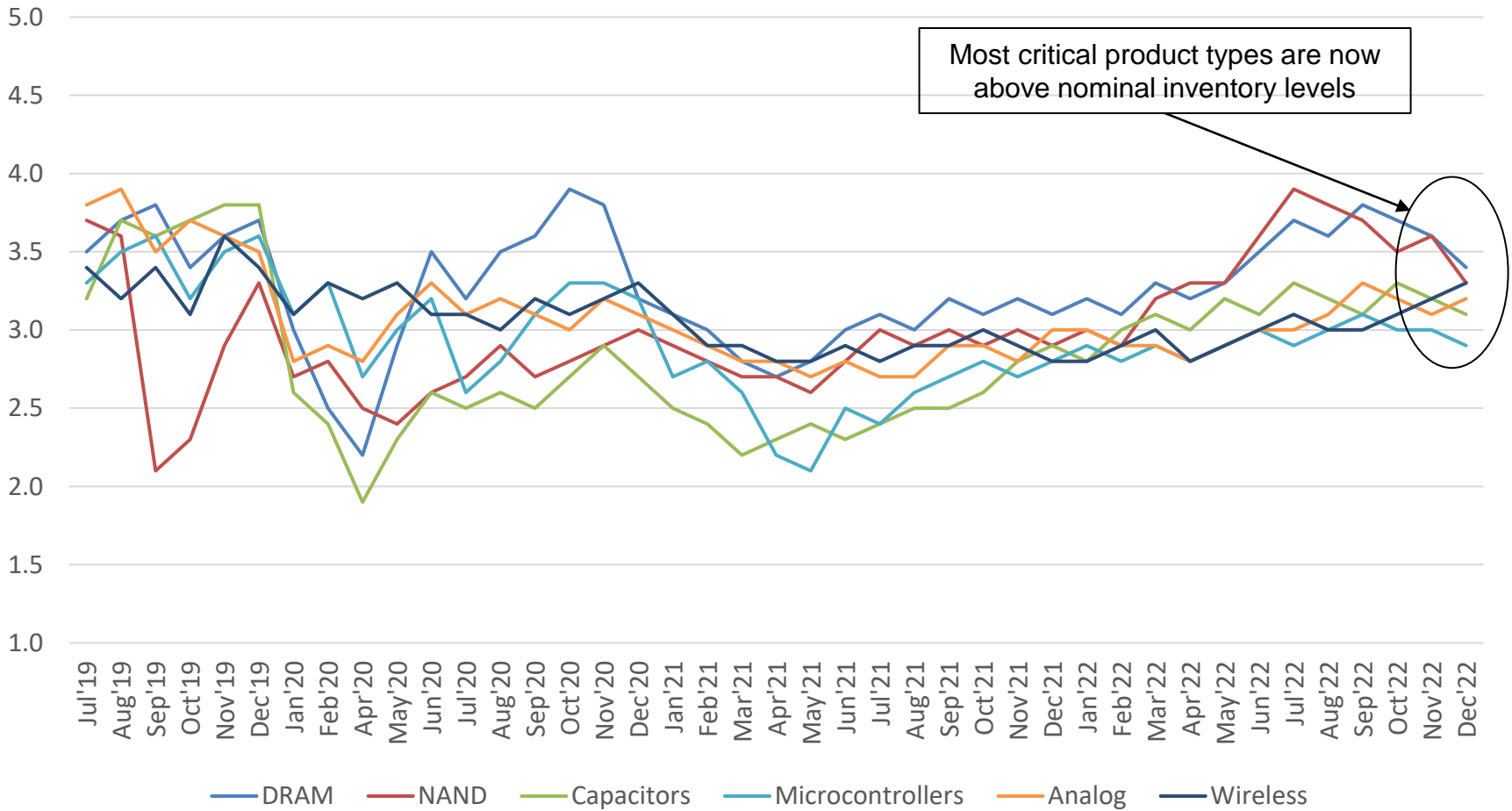
Backlog Order Push Outs/Cancellations vs. 30 Days Ago

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



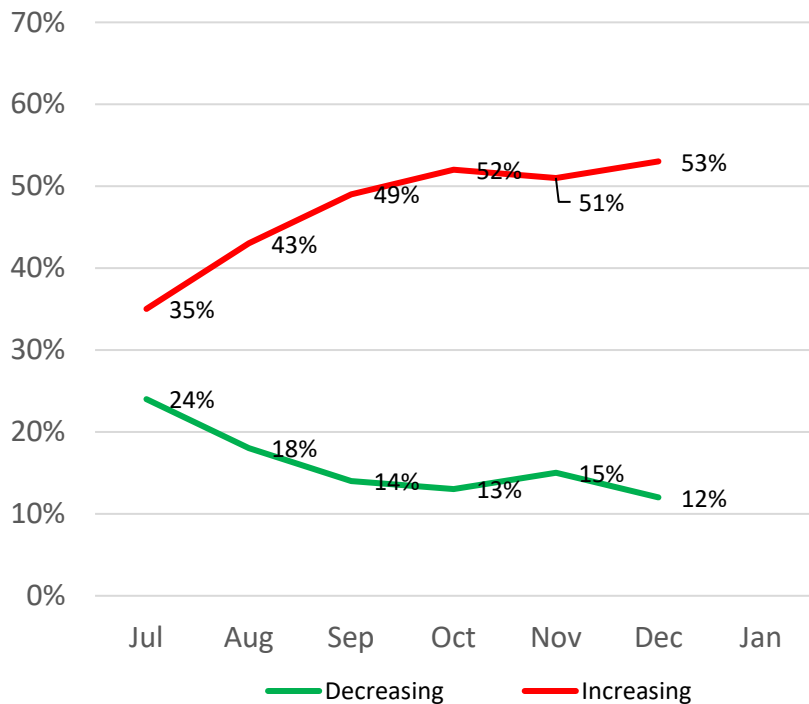
Inventory Status

(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?)

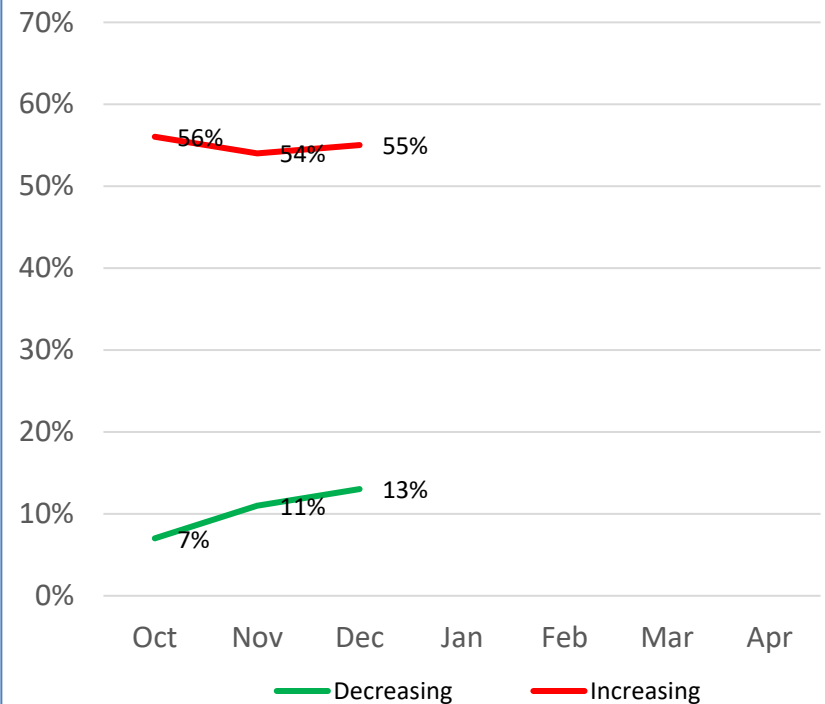


Q/Q Inventory Growth

C4Q22 Inventories vs. C3Q22

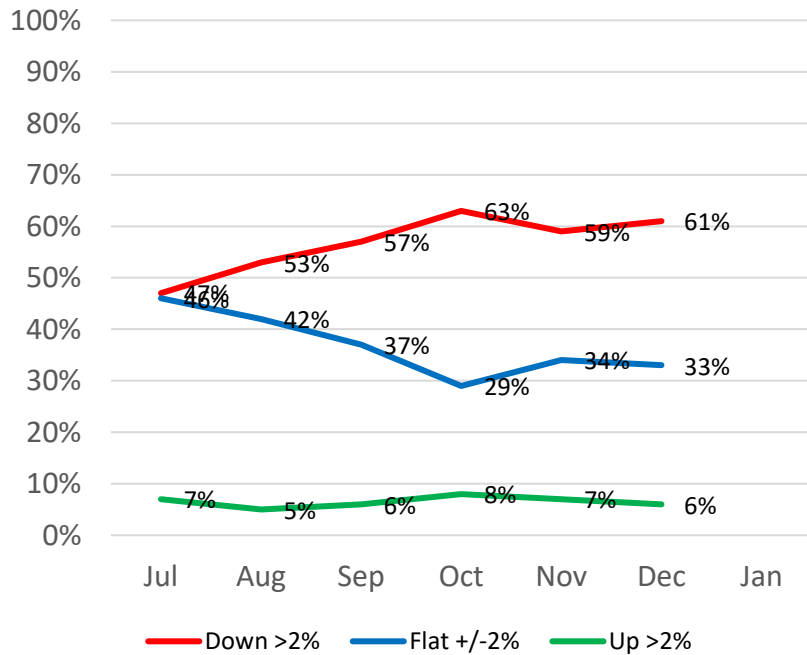


C3Q22 Inventories vs. C2Q22

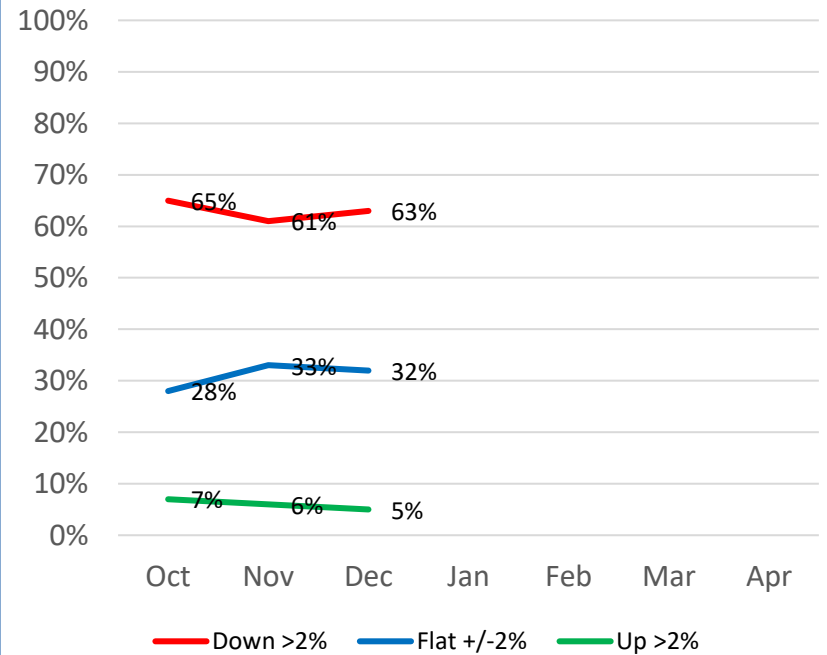


Q/Q Pricing Trends

C4Q22 Pricing vs. C3Q22



C1Q23 Pricing vs. C4Q22



Vertical Outlook

