

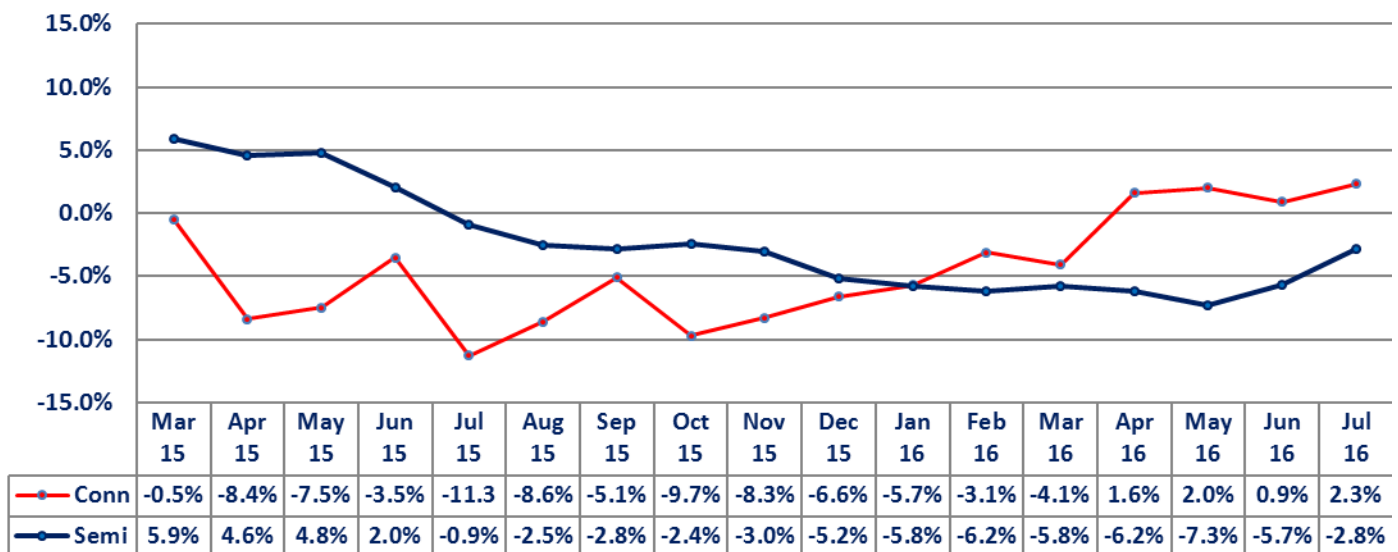
## July Semi Sales Decline -2.8% YOY Connectors Beat Semis for Seven Consecutive Months

The Semiconductor Industry Association (SIA) reported July sales of \$27.1 billion, down -2.8% from July 2015 and up +2.6% sequentially from June. Regionally for July, the SIA reported that China grew +4.7% YOY. The other regions had YOY declines in sales: -7.5% in the Americas, -4.9% in Europe, -1.1% in Japan and Asia Pacific/Other declined -6.8%.

The connector industry sales, measured in U.S. dollars, increased +2.5% to prior year in July and declined -5.9% sequentially. Regionally for July, YOY sales increased +2.8% in North America, +2.0% in Europe, +12.1% in China and +8.1% in ROW. YOY sales declined -11.8% in Japan and -6.3% in Asia Pacific.

The following graph compares semiconductor sales performance to the connector industry.

Monthly Sales Performance  
Year-Over-Year



- July was the 13<sup>th</sup> consecutive month of YOY decline for semiconductors sales. Connectors contracted for 15 consecutive months before growth returned in April 2016.
- Connectors outperformed semis for the seventh straight month.

The following table displays year-to-date performance, measured in U.S. dollars, by geographic region for both components.

### Sales Performance July Year-To-Date

	Semiconductors	Connectors
North America	-14.4%	0.4%
Europe	-7.6%	3.8%
Japan	-0.9%	-24.2%
China	NA	3.4%
Asia Pacific*	-3.0%	-7.9%
World	-5.7%	-0.9%

\* Including China for SIA, Source SIA & Bishop

The differences in the regional YTD numbers still do not make sense, historically speaking. Some of the differences may be explained by which market sectors are doing better (automotive and telecom/Datacom) and which regions these market sectors are strong in, but the end results are likely more complicated than that. The world YTD total of -5.7% for semis and -0.9% for connectors is more the normal delta between the two components.

Connectors are trending toward better performance since November 2015 and will probably be in positive YTD growth mode by the end of September. Semis have trended up for the last two months and may be on the road to recovery.