

May 3, 2021

Notice of Specification Change

Customer:	All	TTM Order#	All
Customer P/N:	All	TTM PCN #	307038
TTM P/N:	X3C19P1-03SR	Qty Affected:	All

Notice of Specification Change(s):

TTM RF&S would like to inform you that a specification change is required for the X3C19P1-03SR. Amplitude Balance in the 1550 – 1710 frequency band is the specific parameter that requires a change. The table below outlines current specifications and updated specifications for that frequency band (highlighted in Yellow). Any specifications not listed, will remain the same.

X3C19P1-03S	Frequency	Isolation	Insertion Loss	VSWR	Amplitude Balance	Phase Balance
	<i>MHz</i>	<i>dB Min</i>	<i>dB Max</i>	<i>Max : 1</i>	<i>dB Max</i>	<i>Degrees</i>
Current Spec	1550 - 1710	23	0.22	1.15	± 0.22	90 ± 3.0
New Spec	1550 - 1710	23	0.22	1.15	± 0.25*	90 ± 3.0

Justification:

When TTM originally established the specifications for this part, they were based on estimated projections for material and process stability established during low volume pilot builds. As we have increased production quantities, it has become apparent that these projections were too optimistic. The net result is that this part has had consistently poor yield, despite several attempts at controlling the material and process variables which impact performance. Because of the size constraints inherent in this small part, there are no design options available which would improve the performance without adversely impacting the performance of other parameters. Therefore, our only available option is to update these specifications.

Specification Change Timeline:

The new specification will automatically go into effect **IMMEDIATELY** for any new orders. If you have open orders, TTM customer service will contact you to check if the customer would prefer to proceed with the open order to this new specification, or to cancel the open order.

To help determine the impact of this change on customer system performance samples are available of units with performance tested to the updated specifications.

TTM feels that this design improvement and spec change is essential to ensure timely and consistent deliveries.

If you have any questions or need further information, please call me at 1-315-233-5510 or send e-mail to Sarvesh.nair@ttm.com

Sincerely,
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