

09/13/2022

Subject: Change to SAE/USCAR-49, Initial release, (Letter #1)

Changes have been made to the return loss criteria in the USCAR-49 specification. Comments and questions can be sent to EWCAP@uscar.org.

Situation:

USCAR-49 was released before testing of all configurations and use cases were completed. Some cases of acceptable performance were found that failed the return loss criteria. Based on these new results and a review of customer needs, the criteria for return loss were found to require updates.

Resolution:

The criteria for return loss are modified as shown in the updated Table 7 and Figure 5 below.

Frequency, GHz	Return Loss Requirement
$0.01 < f \leq 2$	≤ -17.5 dB
$2 < f \leq 6$	≤ -14 dB
$6 < f \leq 7$	≤ -12 dB
$7 < f \leq 9$	≤ -10 dB

