

M/A-COM Technology Solutions, Inc.

4 East Gate Road,
Little Island,
Co. Cork,
Ireland.
www.macomtech.com



Dec 18th 2015

Digi-Key Corporation

701 Brooks Ave South
Thief River Falls, Minnesota 56701

ATTN: Quality/Purchasing Manager

**Subject: Lead-Free (RoHS 6of6) conversion
PCN-00805**

Dear Valued Customer:

Please accept this PCN letter as formal notification for the change of M/A-COM Technology Solutions part number(s) shown below.

The device(s) listed on this page are the affected device(s).

According to our records, at least one of these devices has been purchased by your company within the past twenty-four (24) months.

M/A-COM Part Number(s):

EMDC-16-11-75TR
ELDC-10TR
ELPD-20-1TR
MACPES0026
ELPD-20-4TR
MACP-008125-CK07F0

Technical details of this change notice follow on the next page(s).

Please contact me if you have any questions.

Sincerely,

Alan Miller

Product Manager

Wired Broadband

+1 978 656 2818 office



+1 978 427 7482 mobile

alan.miller@macom.com

100 Chelmsford Street

Lowell, MA 01851 USA

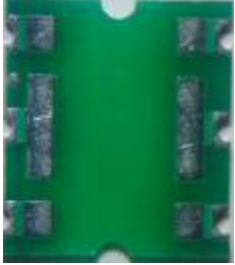
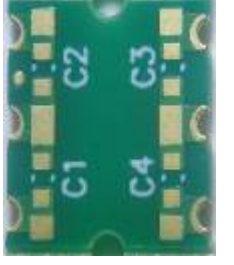
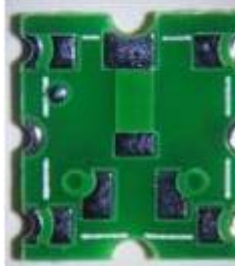
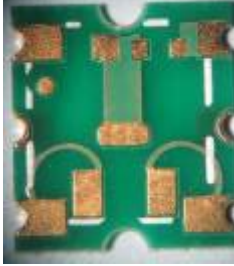

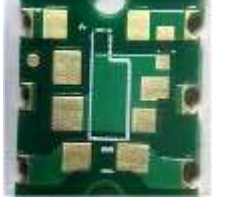
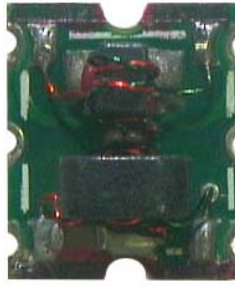
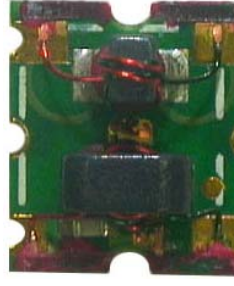
M/A-COM TECHNOLOGY SOLUTIONS CONFIDENTIAL & PROPRIETARY

PCN Number: 00805		PCN Date: 18 th December 2015	
Title: RoHS compliance of the Following			
M/A-COM Tech Part #	Change		
EDMC-16-11-75TR	Now Rohs Compliant – PCB		
ELDC-10TR	Now Rohs Compliant – PCB /Solder		
ELPD-20-1TR	Now Rohs Compliant – PCB /Solder		
MACPES0026	Now Rohs Compliant – PCB		
ELPD-20-4TR	Now Rohs Compliant – PCB /Solder		
MACP-008125-CK07F0	Now Rohs Compliant – Solder		
Proposed 1st Ship Date:		Estimated Sample Availability:	
March 18 th 2016.		Available upon request	
Change Type:			
Assembly Site	Design	Electrical Specification	
Test Site	Assembly Process	Mechanical Specification	
Test Process	Assembly Materials X	Packing/Shipping/Labeling	
PCN Details			
Description of Change:			
Part number	Change	Description of change	
		Old PCB HASL	New Rohs PCB ENIG
EDMC-16-11-75TR	PCB plating changed from HASL 60/40 to ENIG.		

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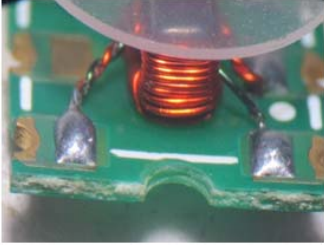
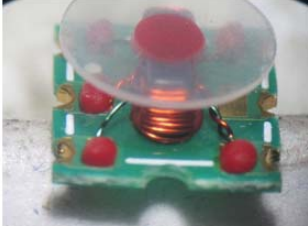


ELDC-10TR	PCB plating changed from HASL 60/40 to ENIG. Solder changed from HMP to SAC 305 for component attach. Wire attach method changed from HMP solder to weld.		
ELPD-20-1TR	PCB plating changed from HASL 60/40 to ENIG. Solder changed from HMP to SAC 305 for component attach. Wire attach method changed from HMP solder to weld.		
MACPES0026	PCB plating changed from HASL 60/40 to ENIG.		
ELPD-20-4TR	PCB plating changed from HASL 60/40 to ENIG. Solder changed from HMP to SAC 305 for component attach. Wire attach method changed from HMP solder to weld.		

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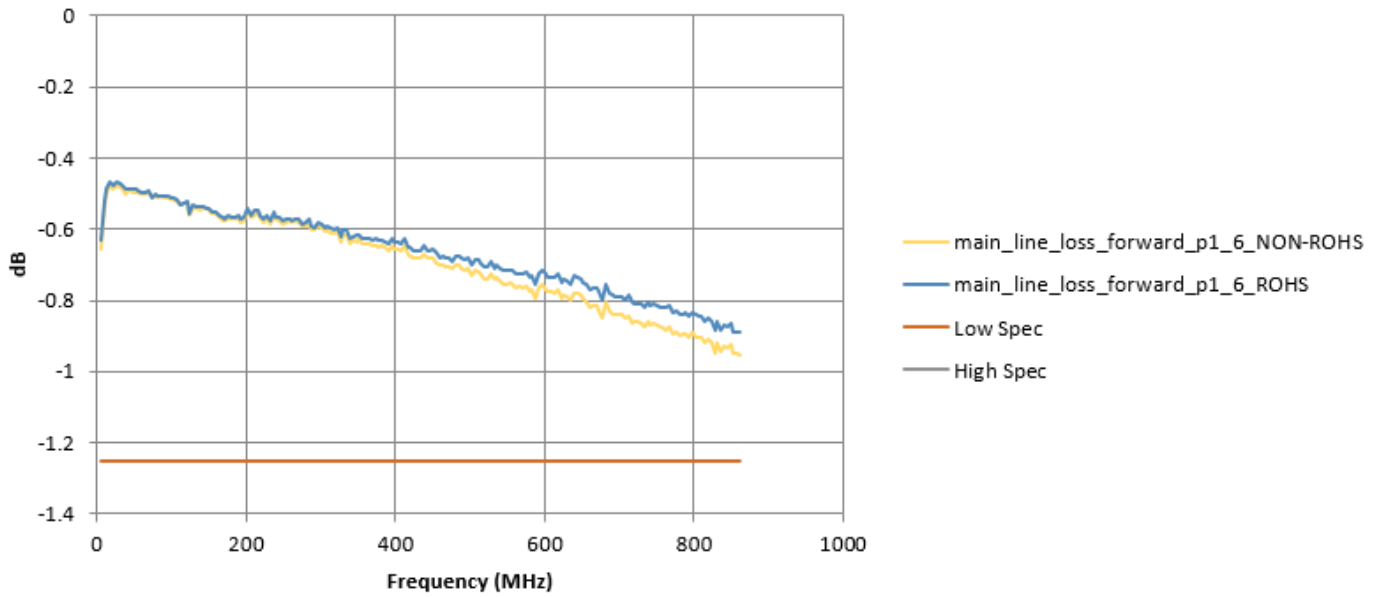
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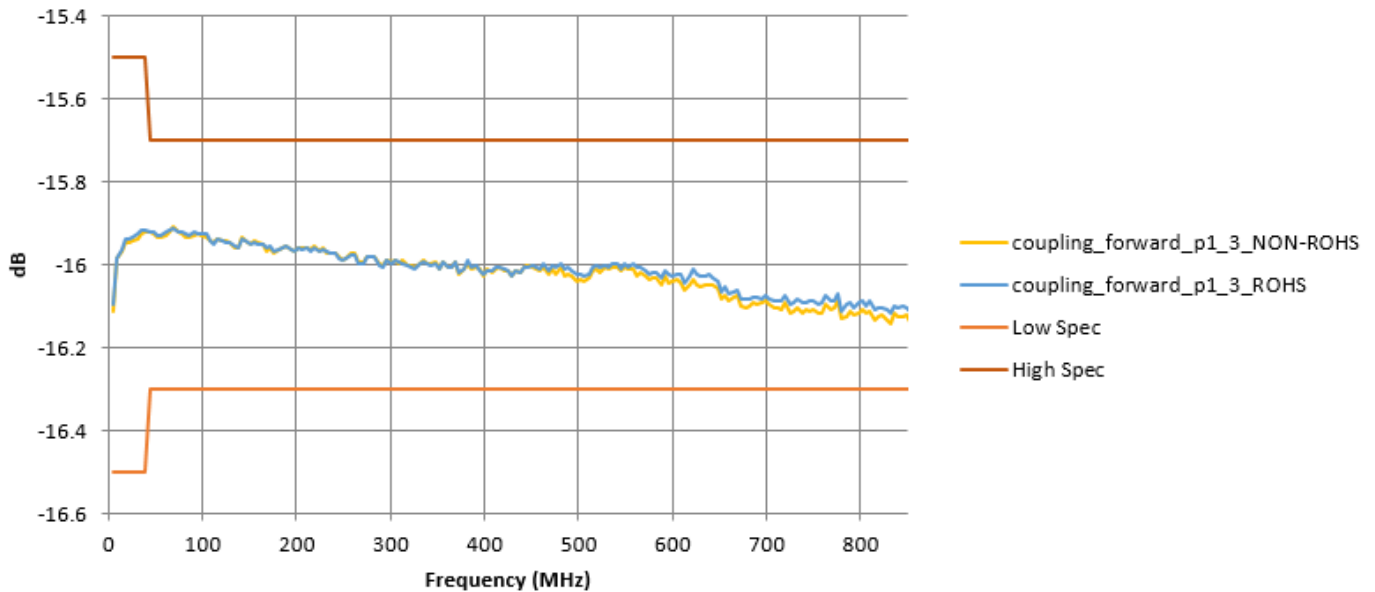
MACP-008125-CK07F0	Wire attach method changed from HMP solder to weld and epoxy added to weld connection.		
Reason for Change:			
To comply with market requirement for product to be lead-free.			
Products Affected: EDMC-16-11-75TR ELDC-10TR ELPD-20-1TR MACPES0026 ELPD-20-4TR MACP-008125-CK07F0			
Anticipated impact on Fit, Form, Function:			
None			
Changes to product identification resulting from this PCN:			
None			
Qualification: Test Results			
Test All DS Parameters	Conditions Ambient	Sample Size 30	

EMDC-16-11-75TR PCB HASL(HMP) V ENIG(SAC305)

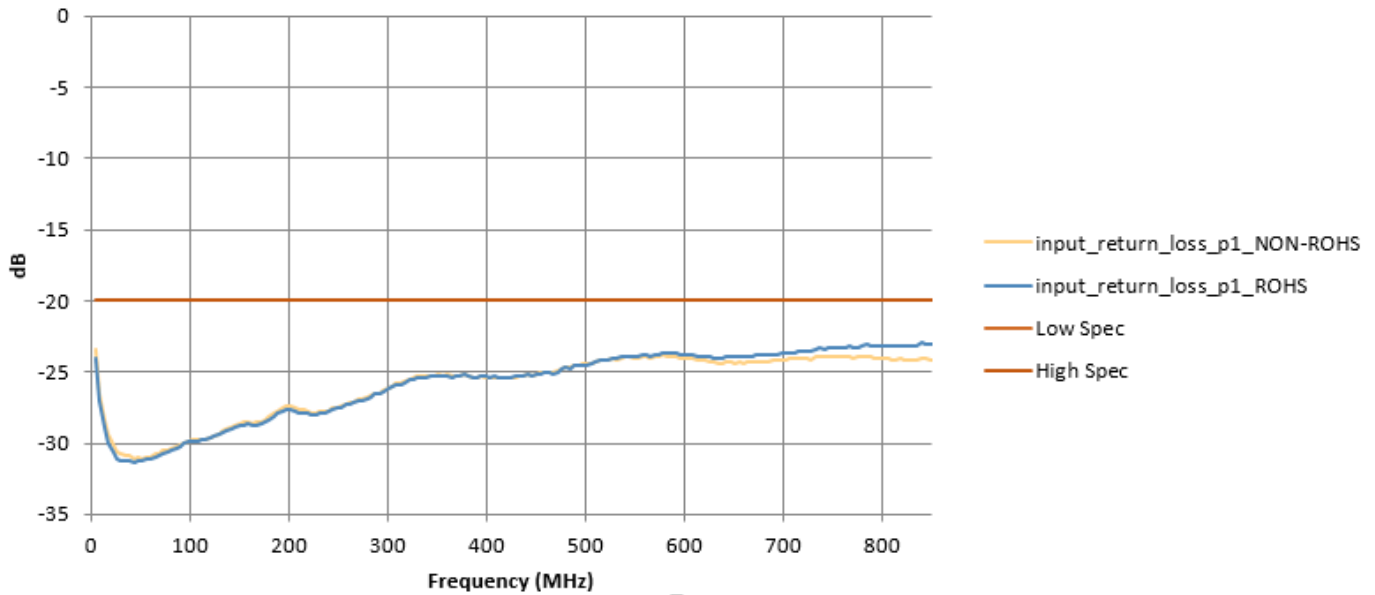
main_line_loss_forward_p1_6



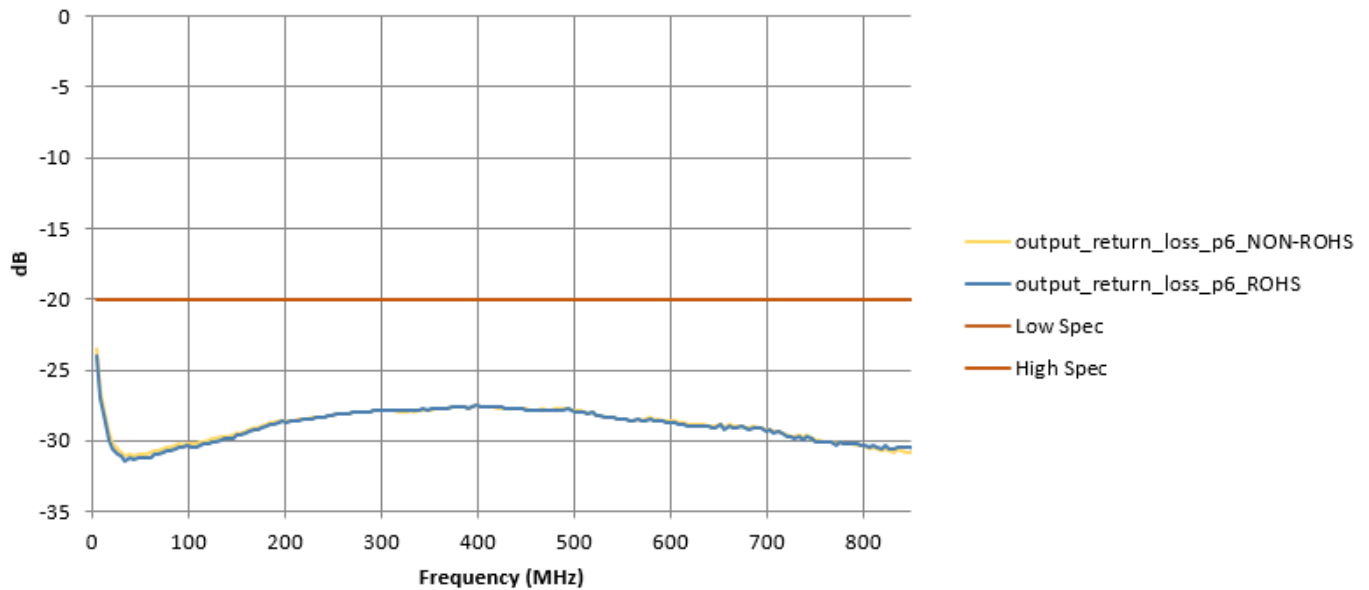
coupling_forward_p1_3



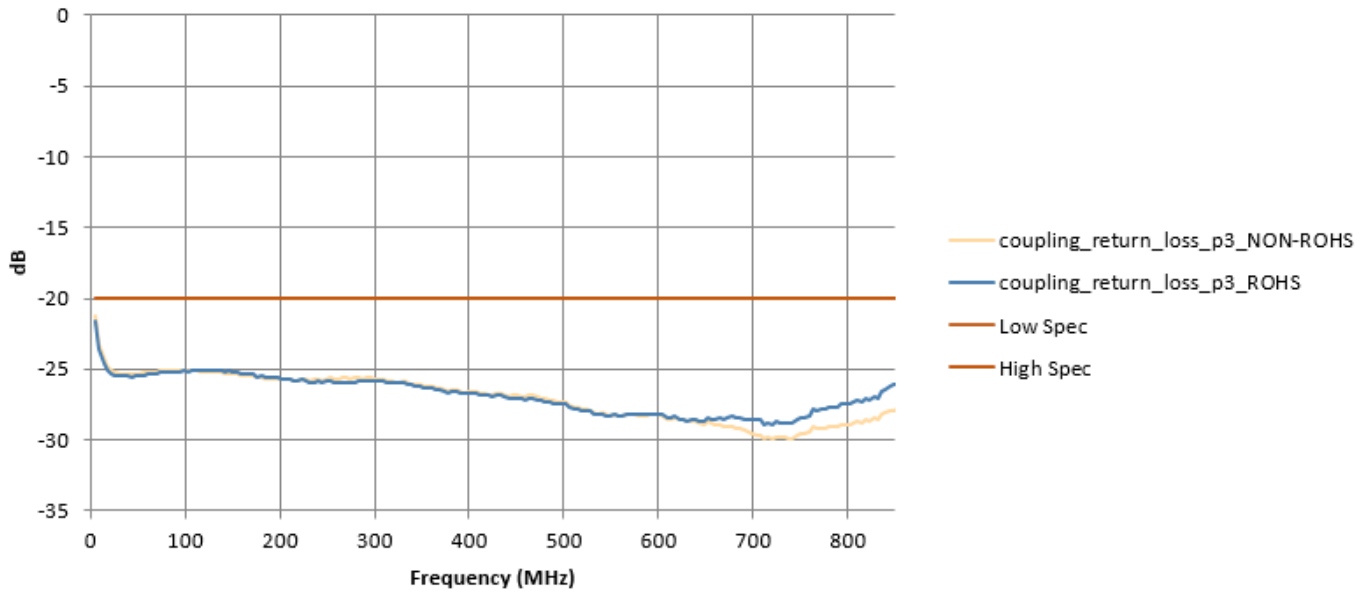
input_return_loss_p1



output_return_loss_p6

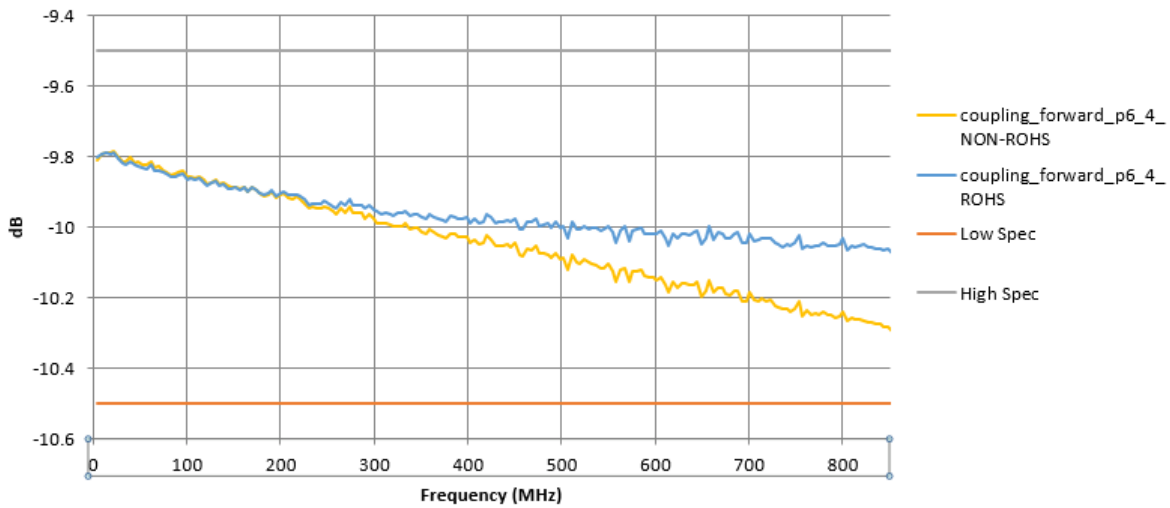


coupling_return_loss_p3

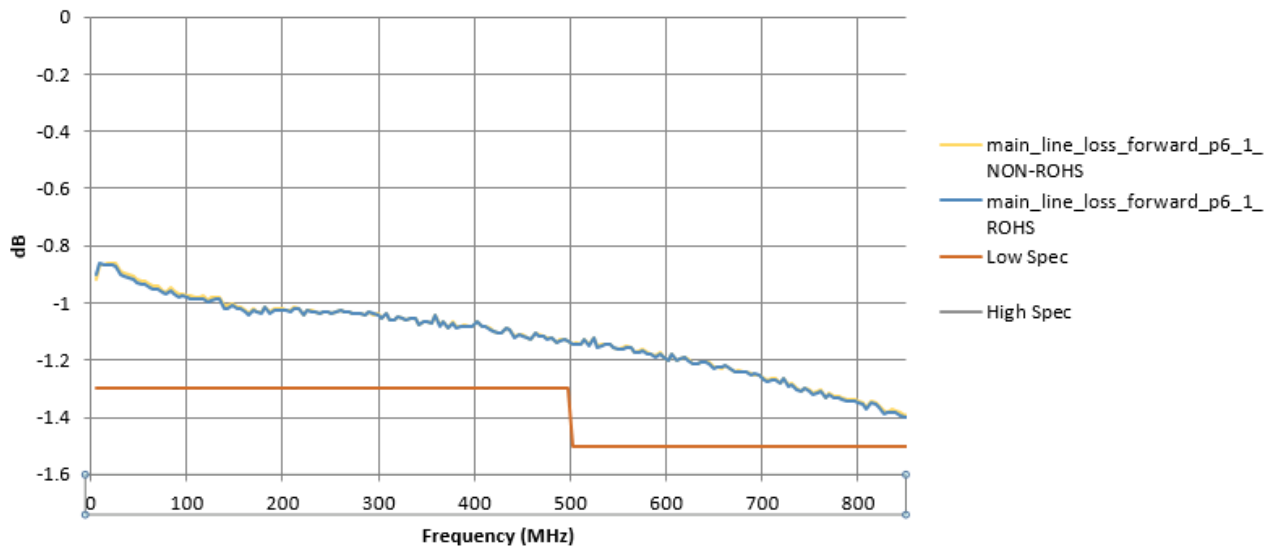


ELDC-10TR – PCB HASL(HMP) V ENIG(SAC305)

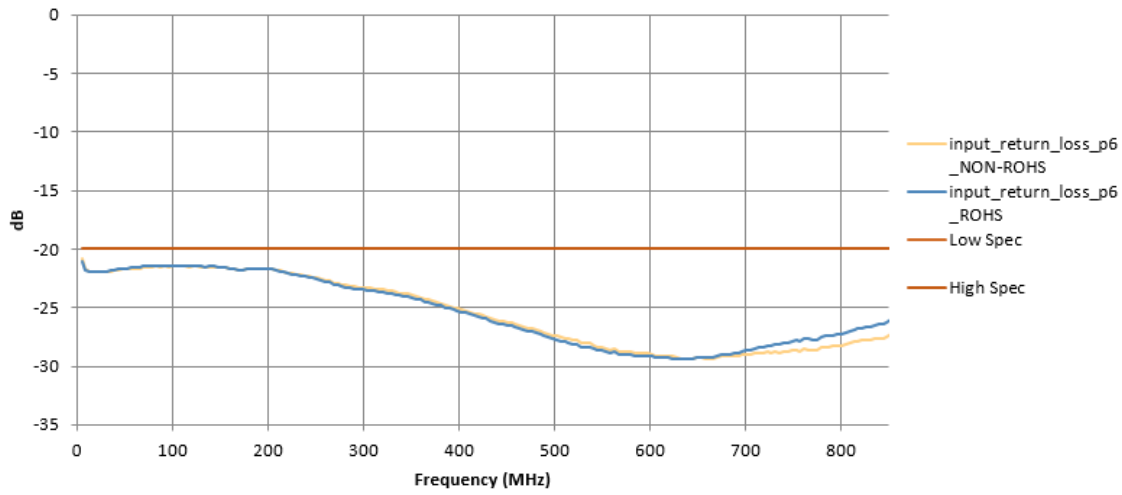
coupling_forward_p6_4



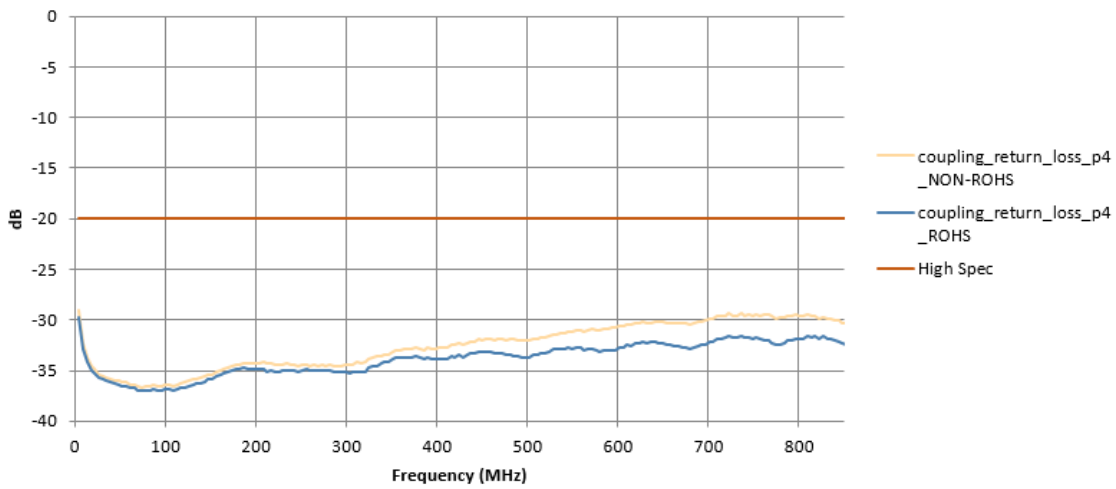
main_line_loss_forward_p6_1

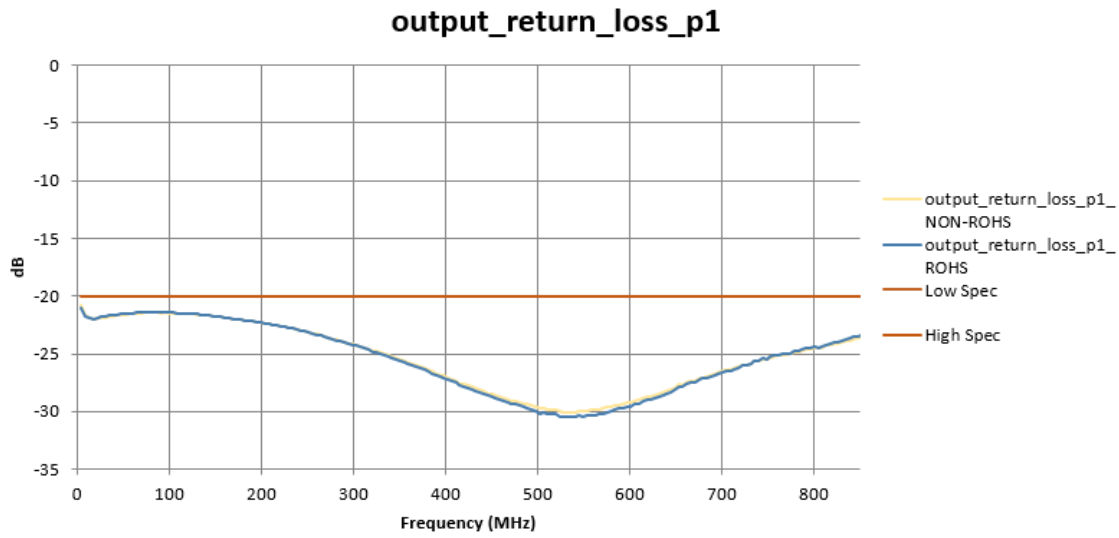


input_return_loss_p6

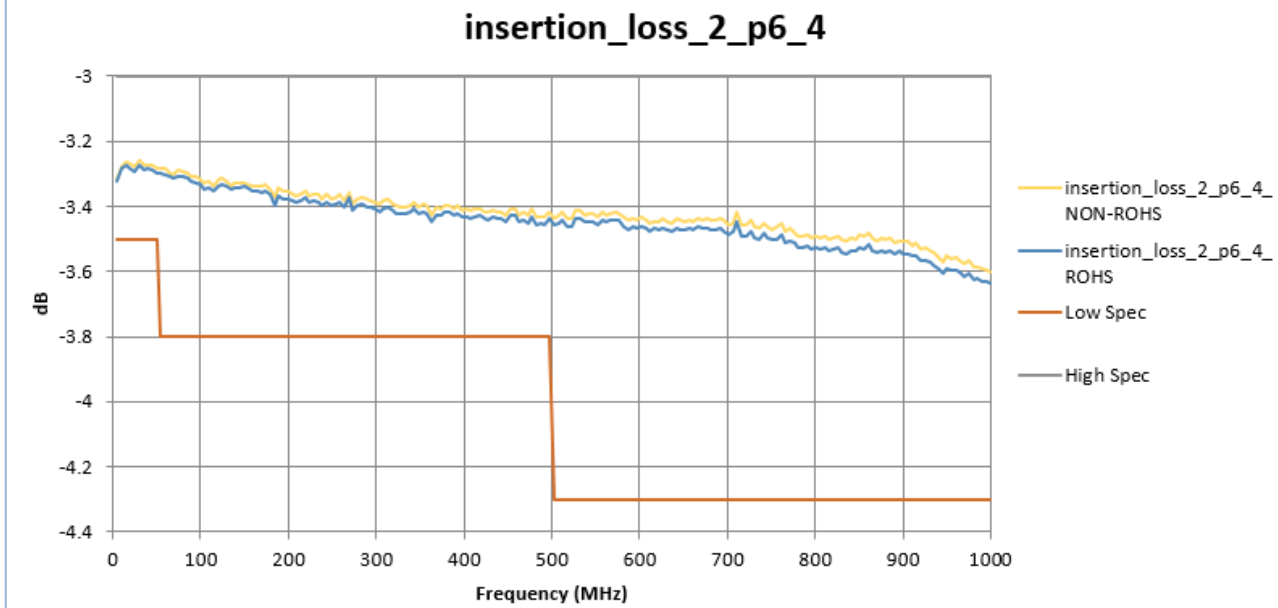
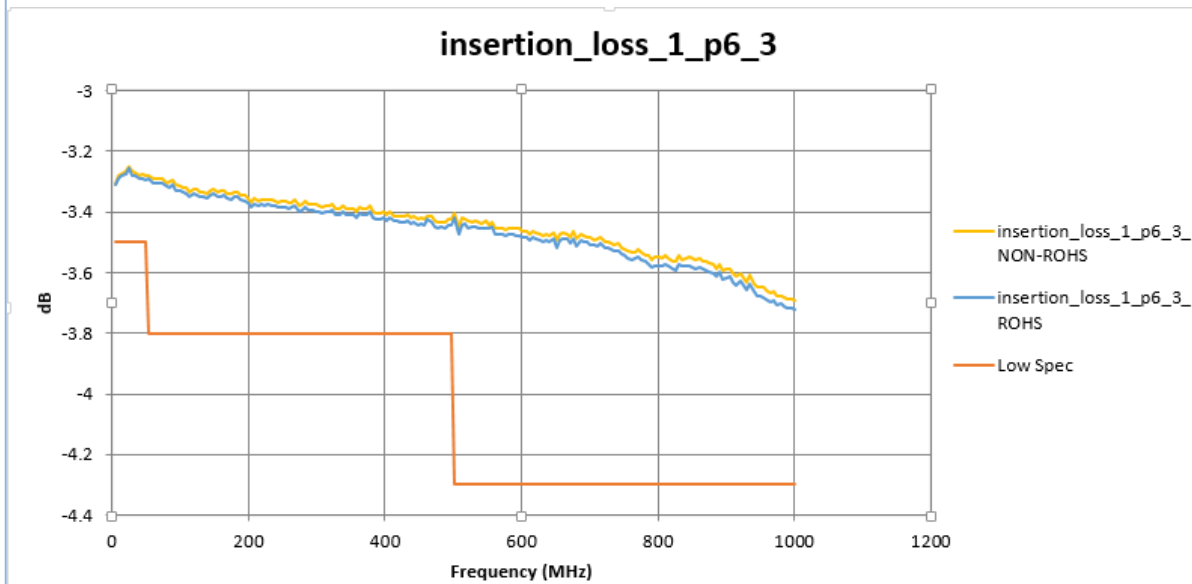


coupling_return_loss_p4

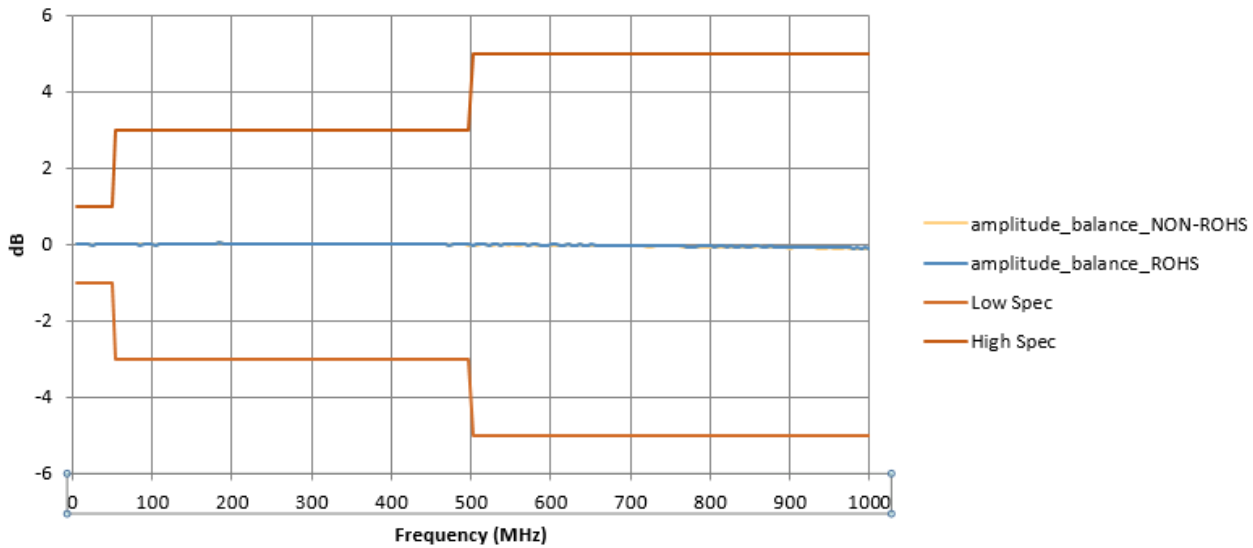




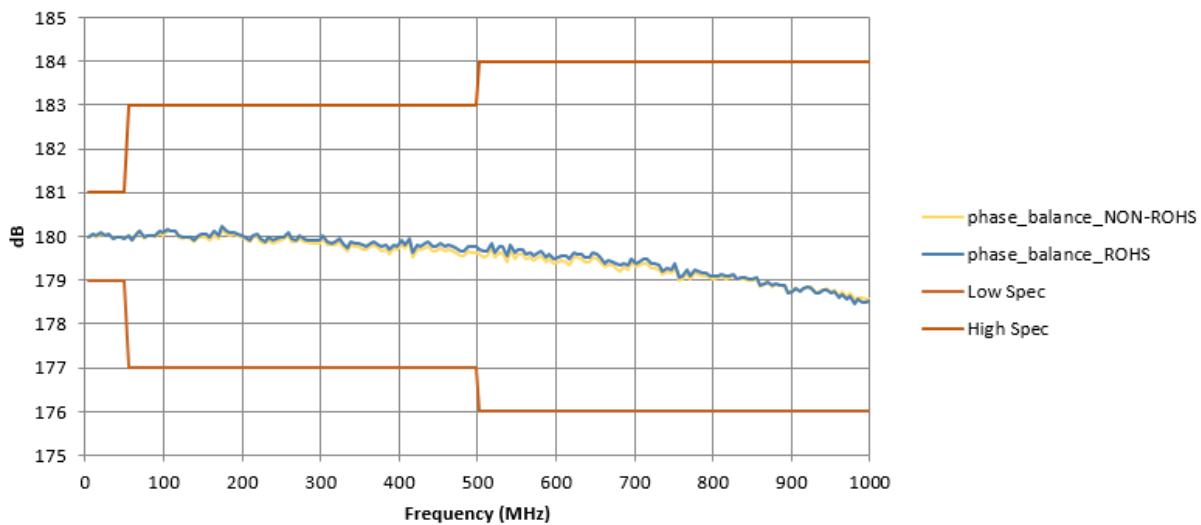
ELPD-20-1 TR PCB HASL(HMP) V ENIG(SAC305)



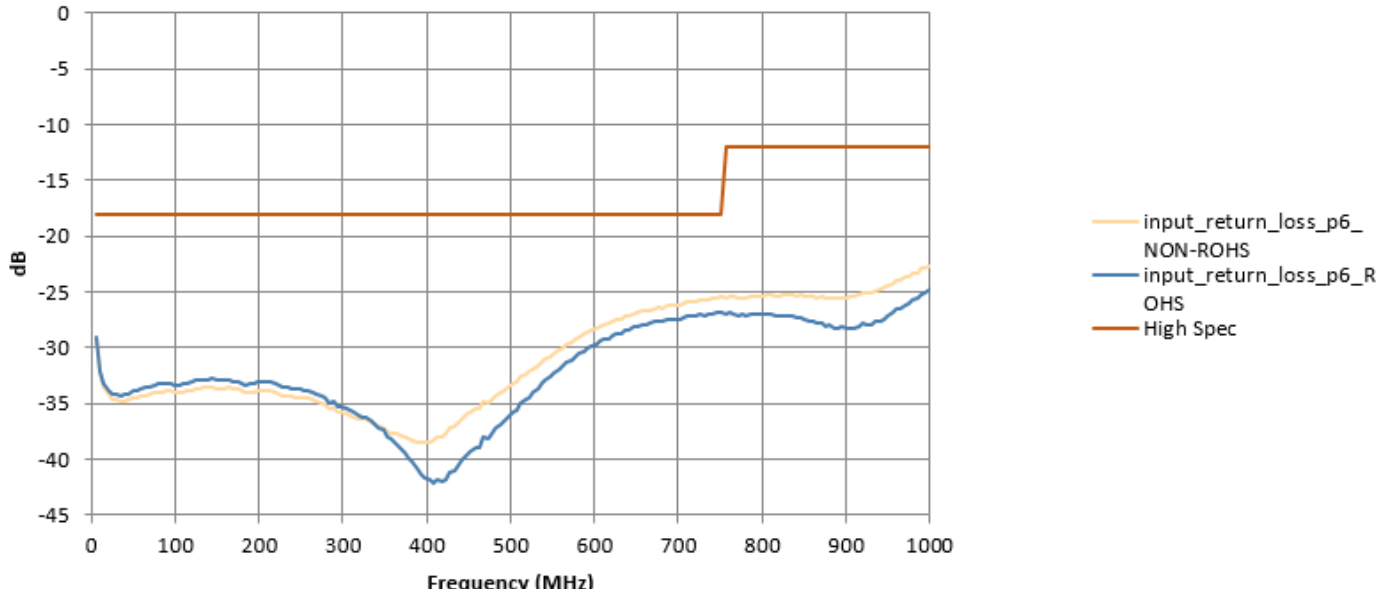
amplitude_balance



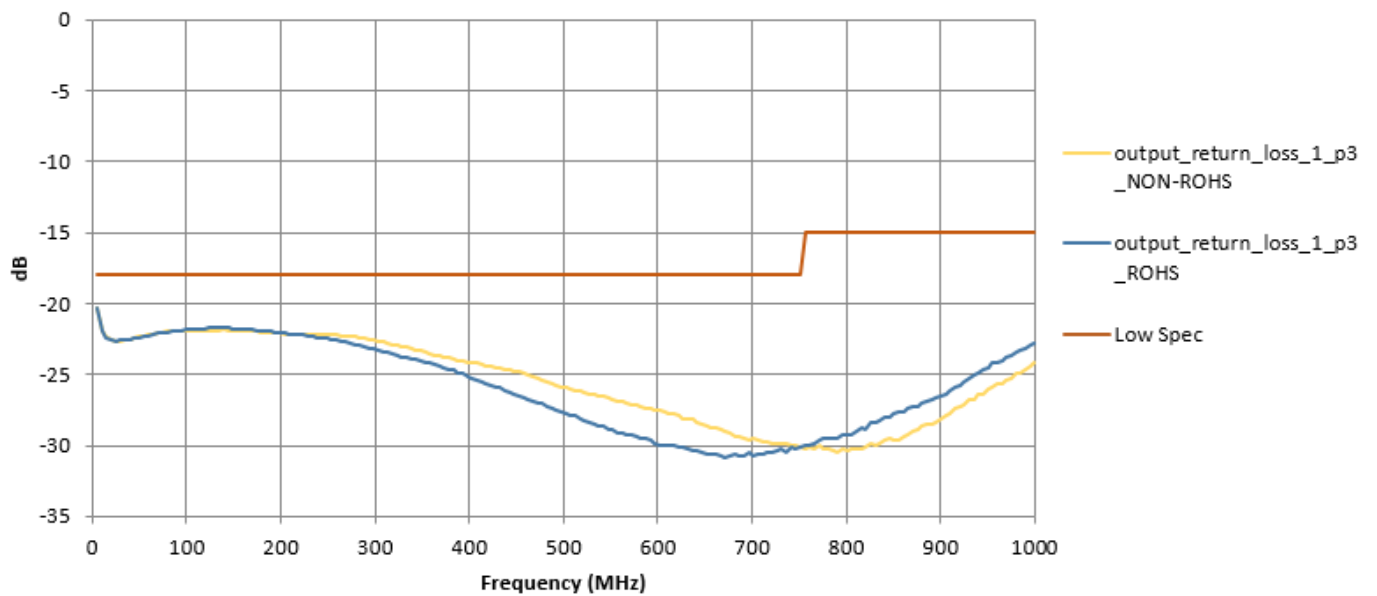
phase_balance



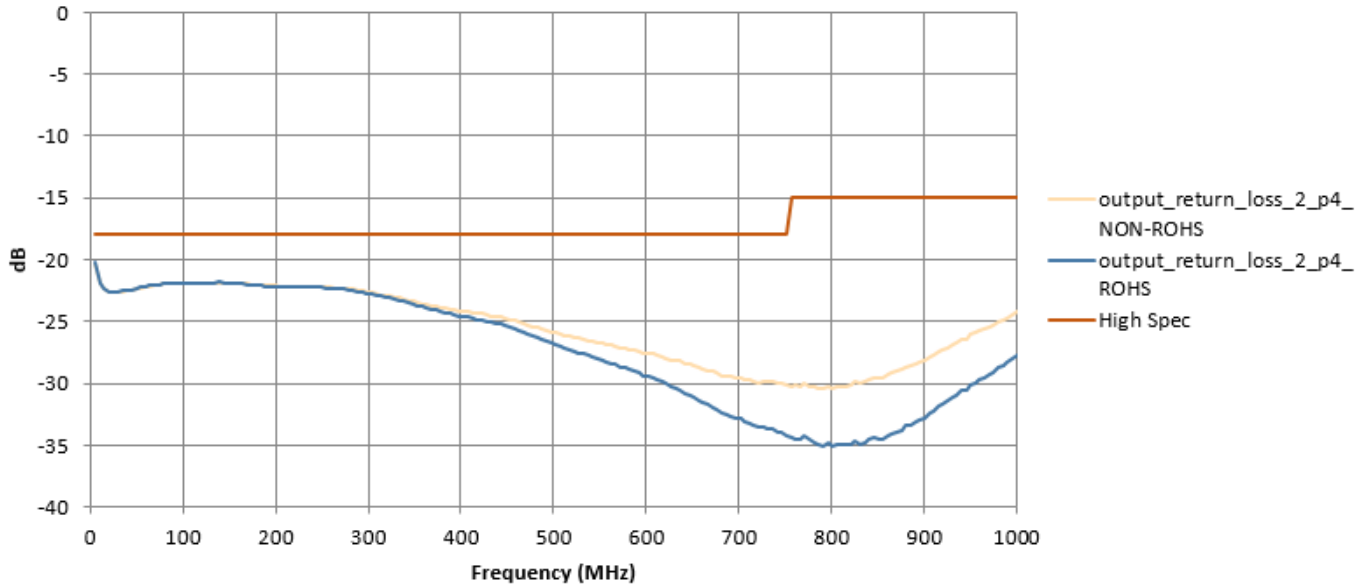
input_return_loss_p6



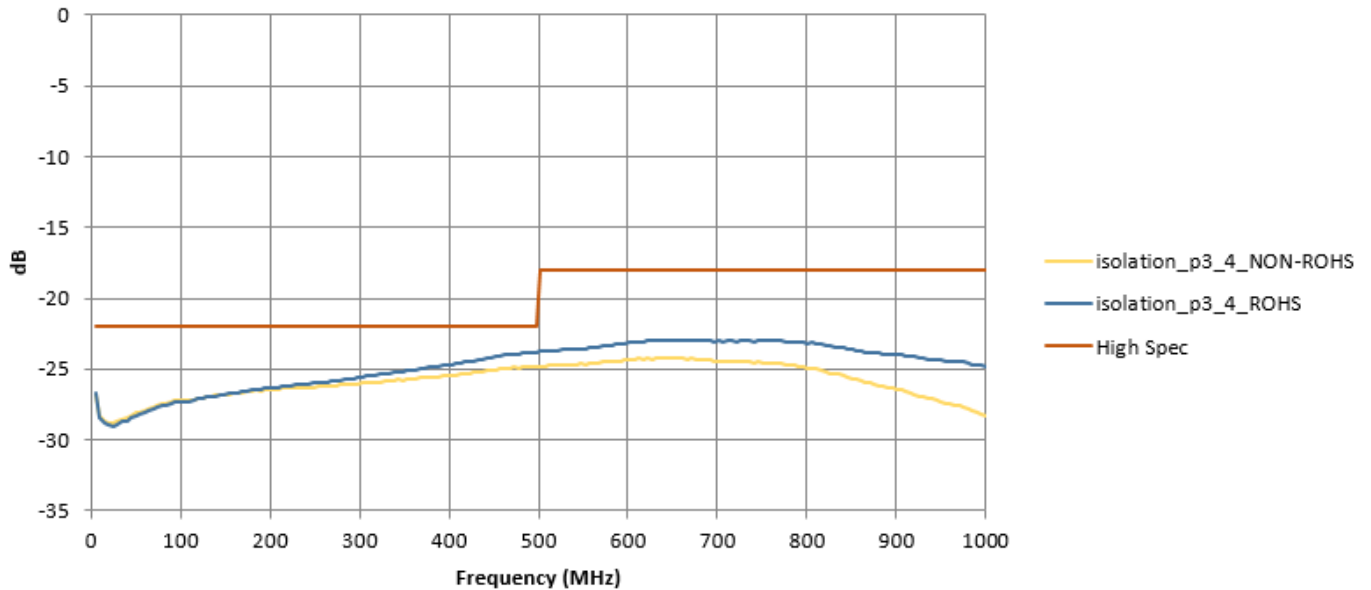
output_return_loss_1_p3



output_return_loss_2_p4

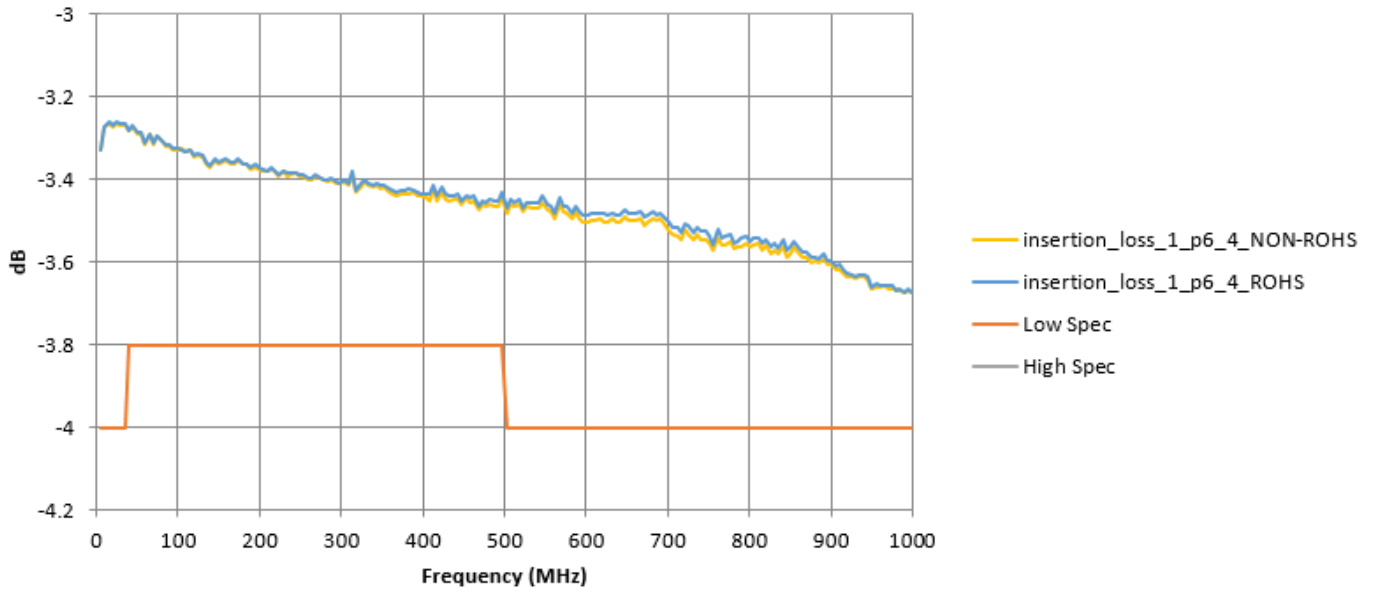


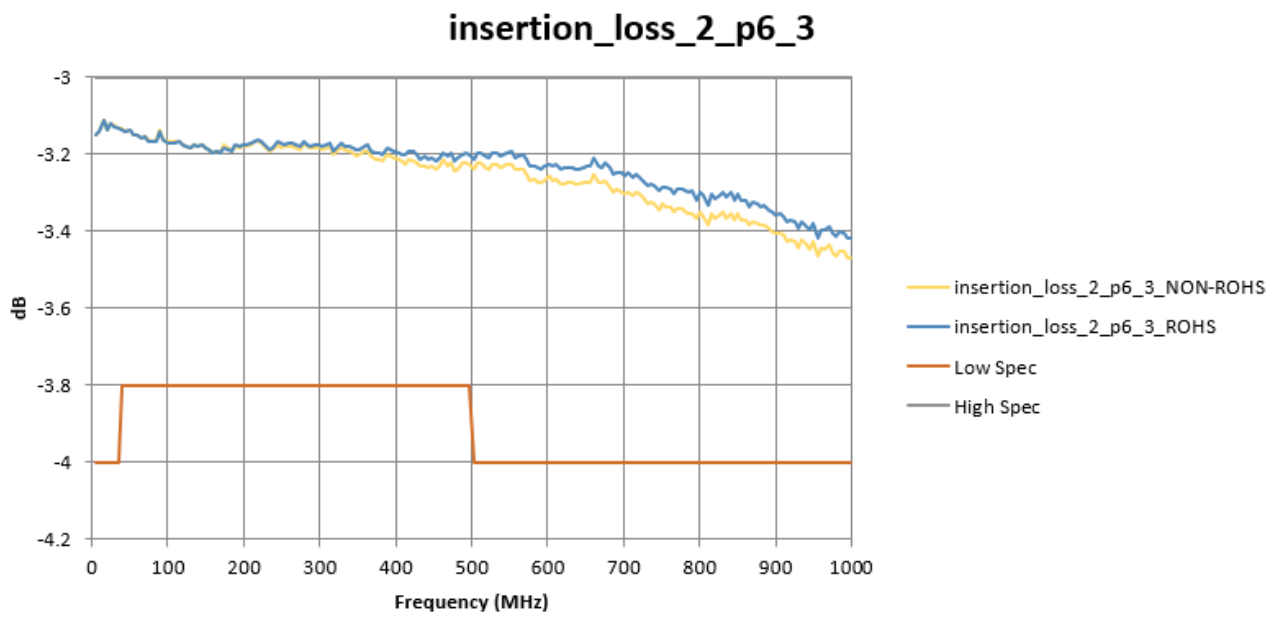
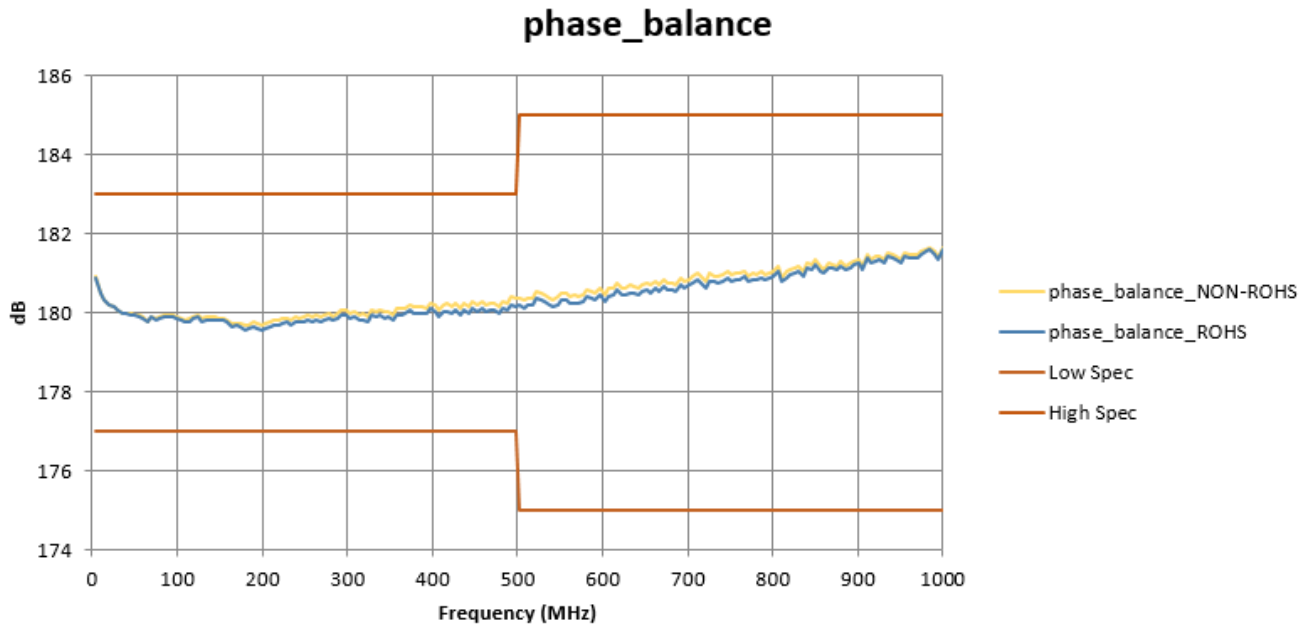
isolation_p3_4



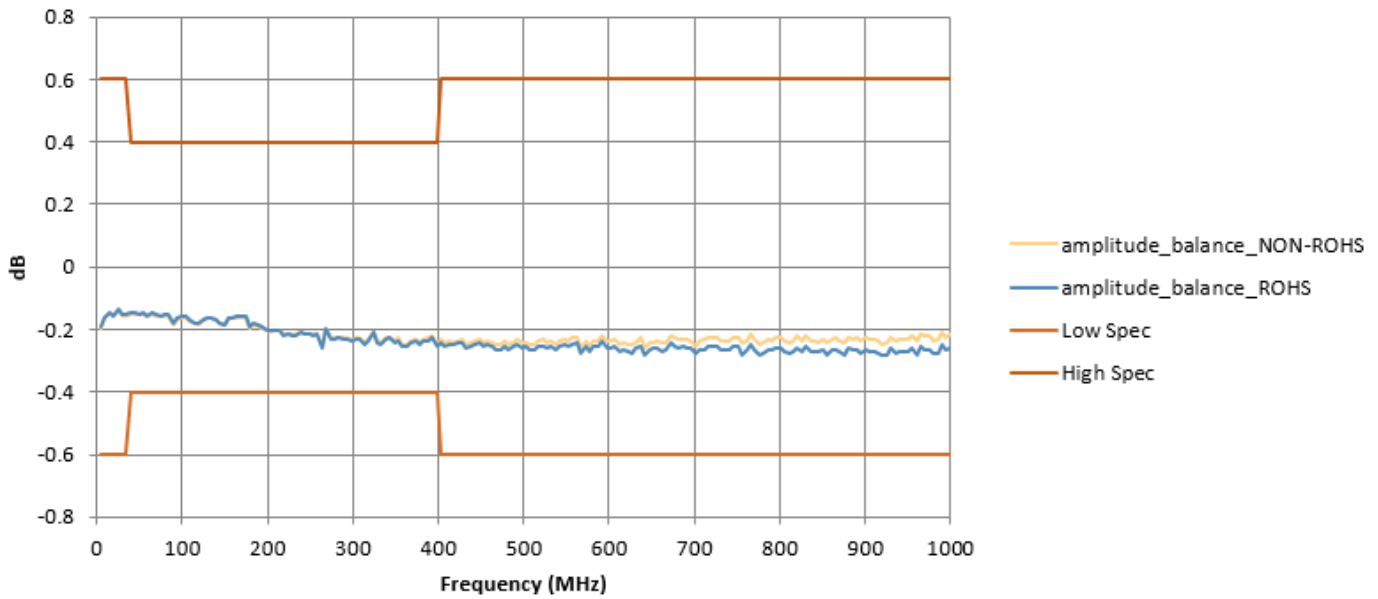
MACPES0026 PCB HASL(HMP) V ENIG(SAC305)

insertion_loss_1_p6_4

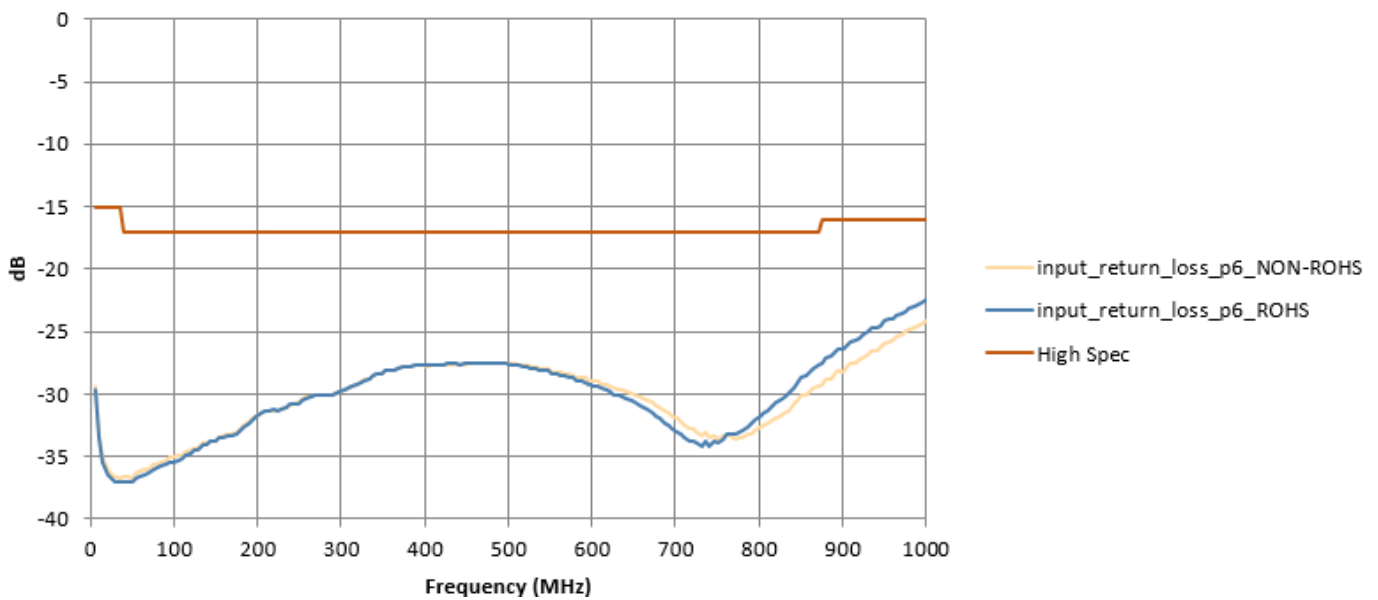




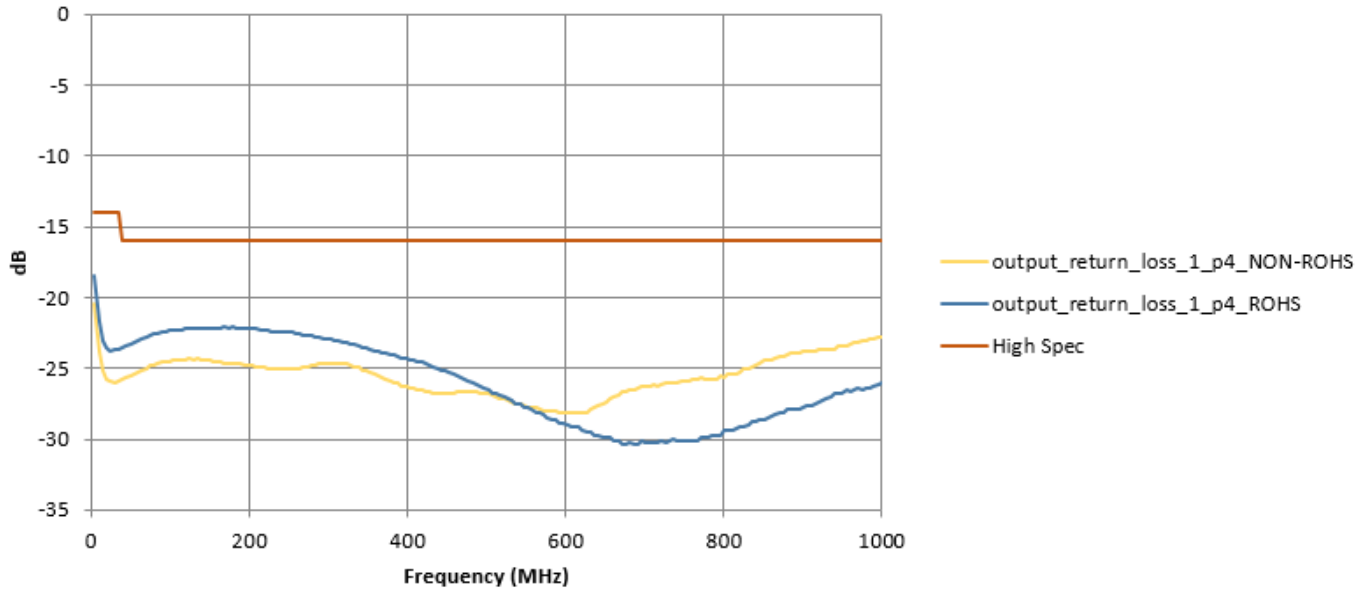
amplitude_balance



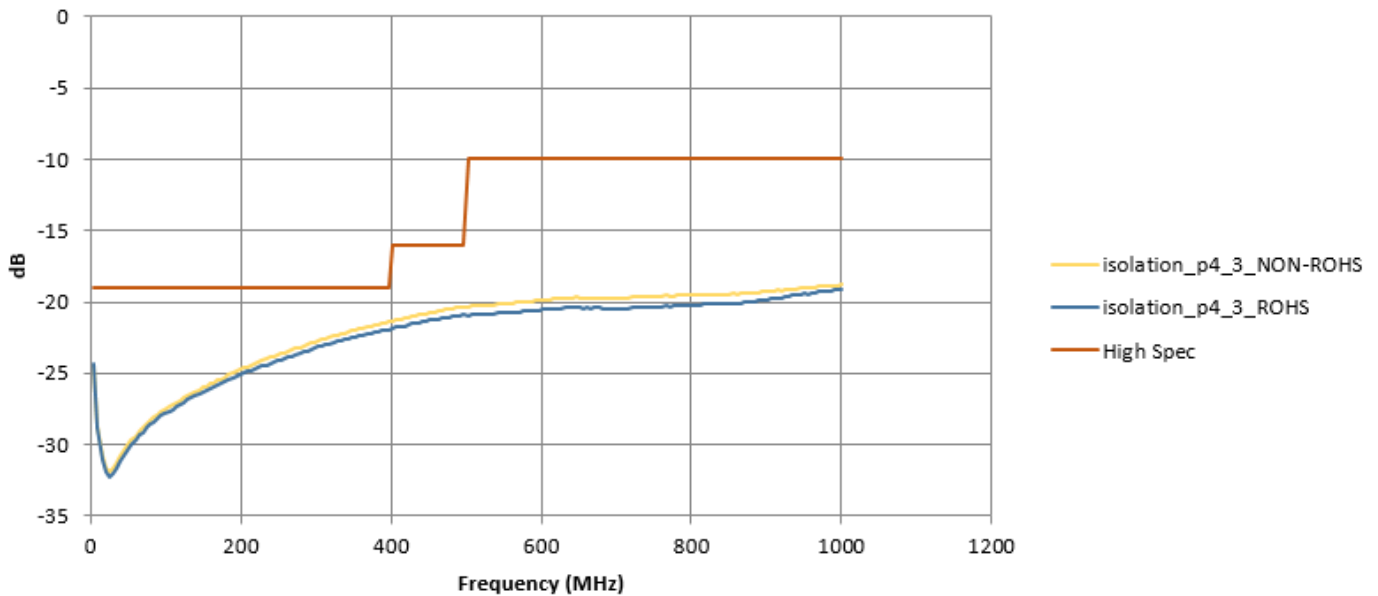
input_return_loss_p6



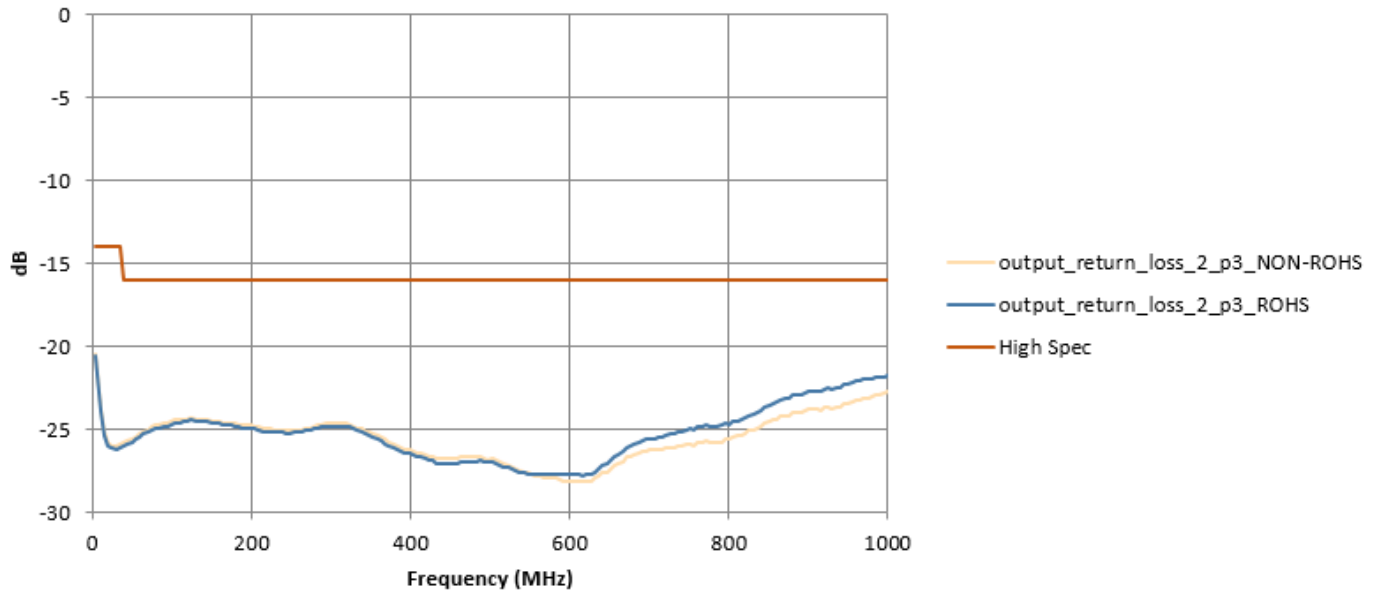
output_return_loss_1_p4



isolation_p4_3



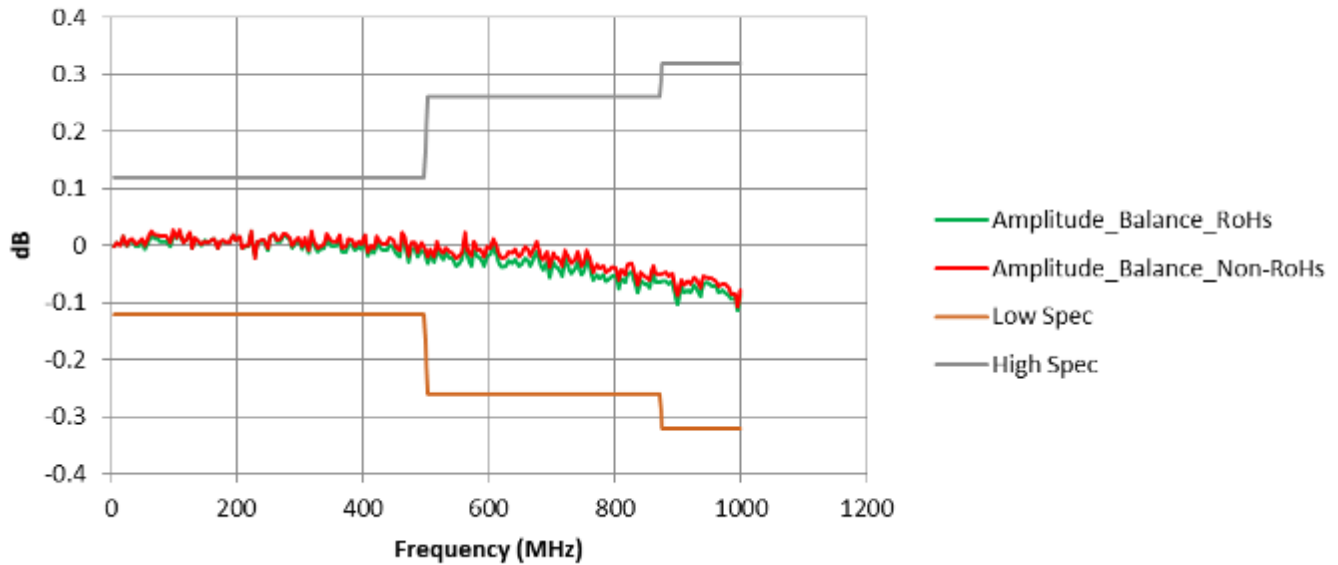
output_return_loss_2_p3



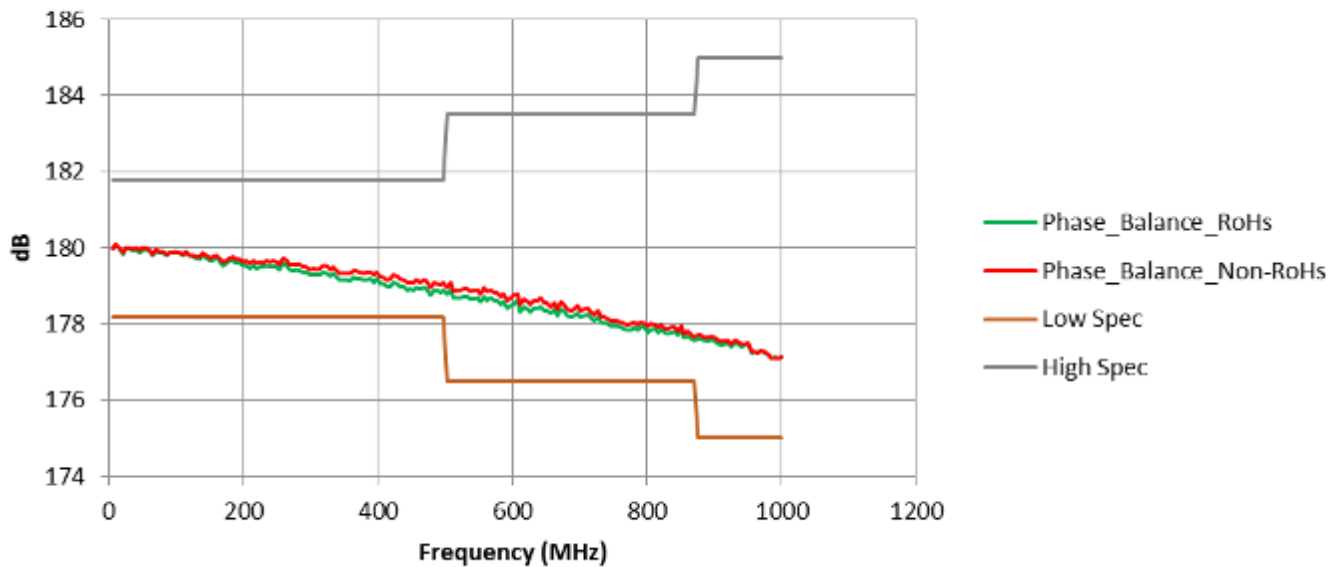
ELPD-20-4TR Averaged Sample comparison Non-RoHS v RoHS



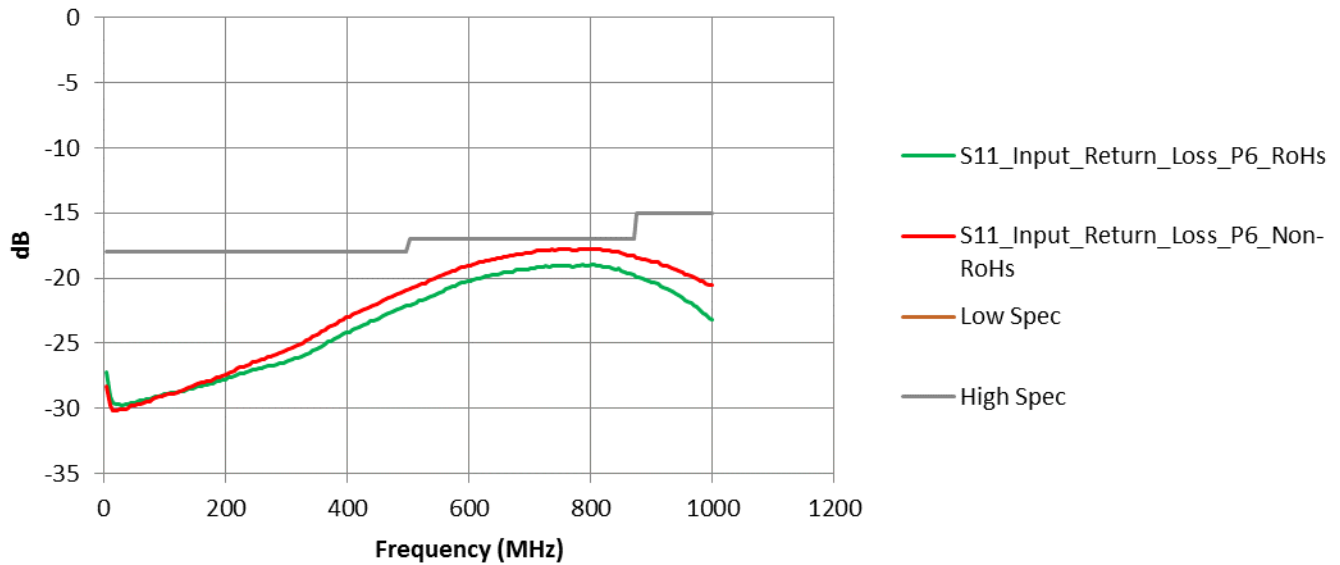
Amplitude_Balance



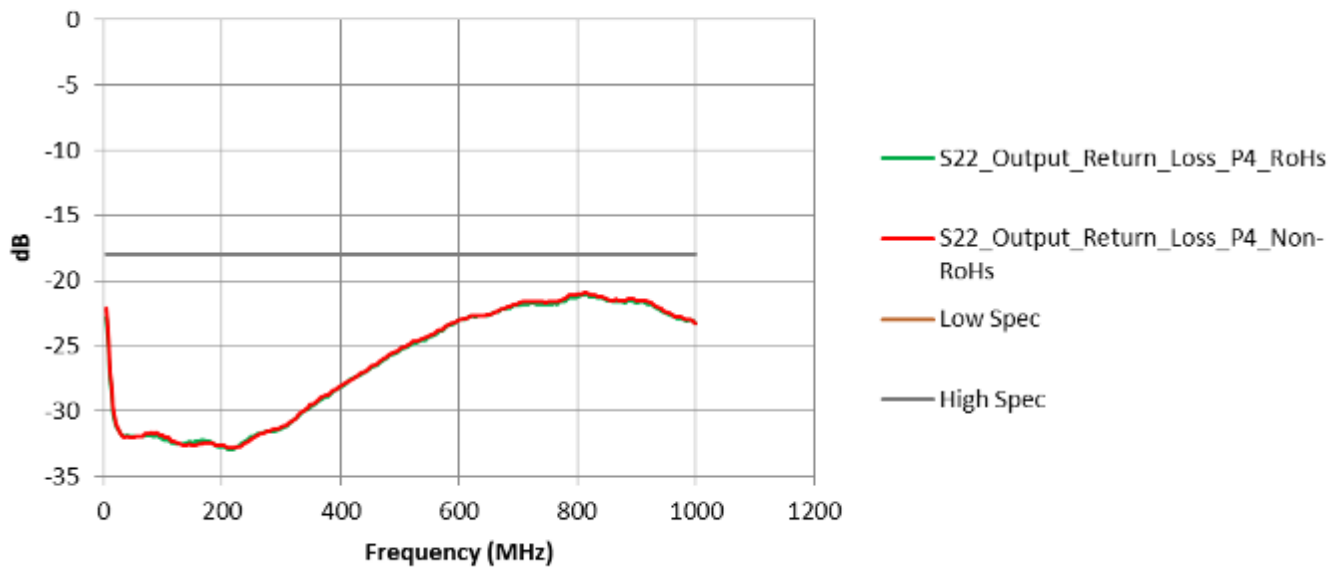
Phase_Balance



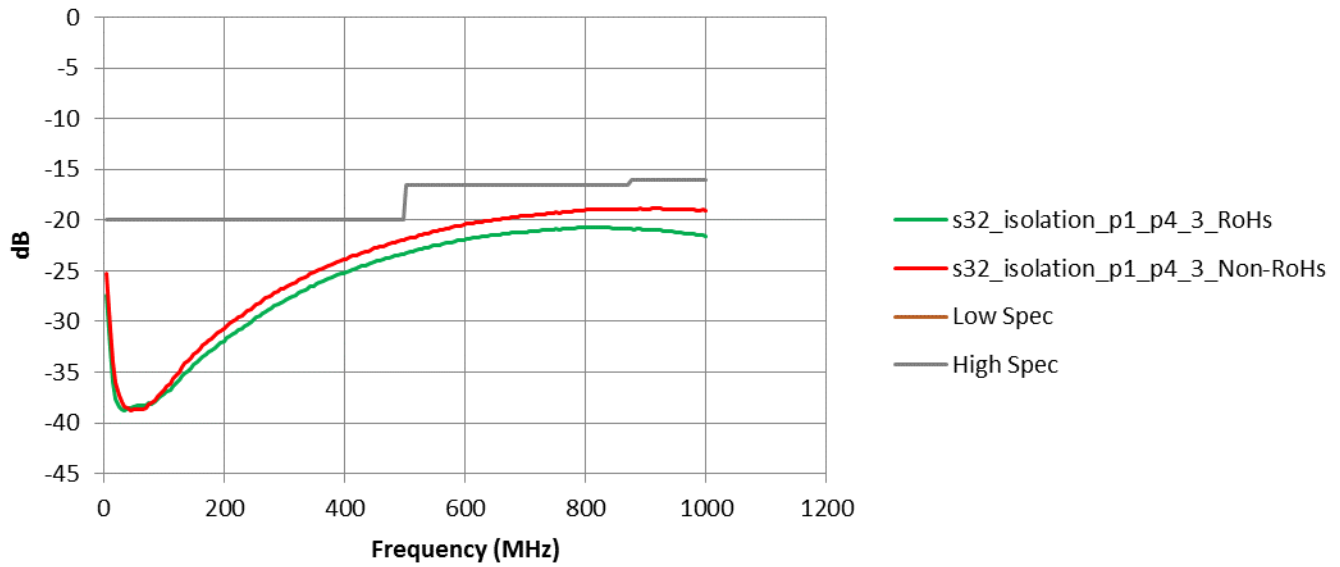
S11_Input_Return_Loss_P6



S22_Output_Return_Loss_P4



s32_isolation_p1_p4_3



MACP-008125-CK07F0- HMP V SAC305

