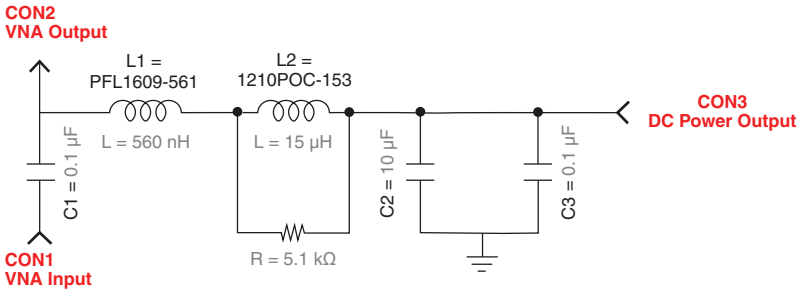
PoC Filter Solution – SMD-POC-066

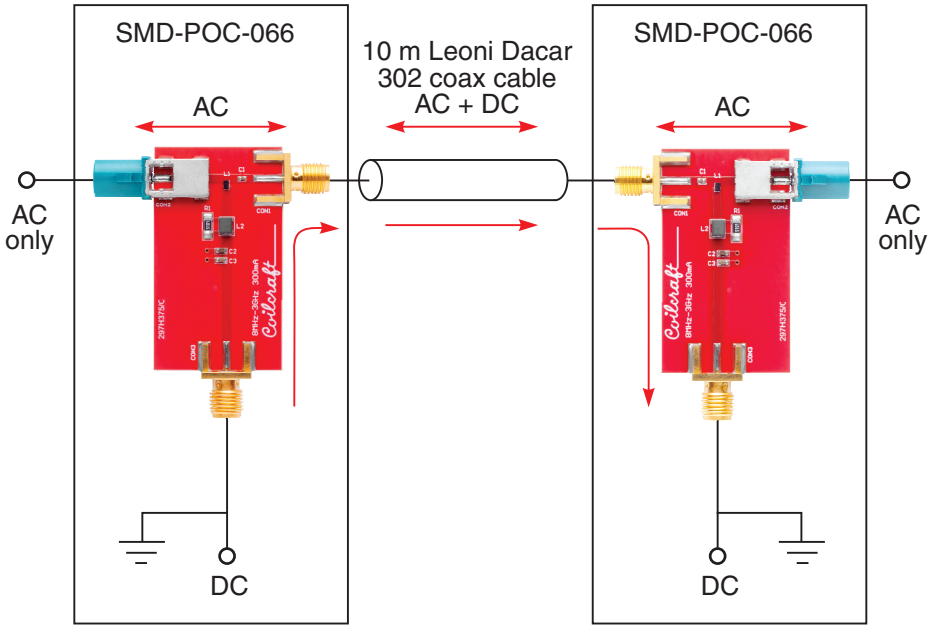
- PoC solution for 8 MHz – 3 GHz applications
- Designed specifically for 6 Gbps chipsets
- Less than 11 mm² of board space with 3.0 mm maximum height
- 125°C ambient applications: 500 mA
- 105°C ambient applications: 650 mA
- 85°C ambient applications: 700 mA

Inductors	DCR max. (Ohms)	Max. Area (mm²)	Isat (A) 30%				Irms (A)			
			25°C	85°C	105°C	125°C	25°C	85°C	105°C	125°C
PFL1609-561 (0.56 µH)	0.13	1.93	1.1	0.85	0.77	0.61	1.4	1.3	1.1	0.80
1210POC-153 (15 µH)	0.51	8.81	0.91	0.74	0.66	0.58	0.90	0.84	0.62	0.50
Totals:	**0.64**	**10.74**								

Schematic



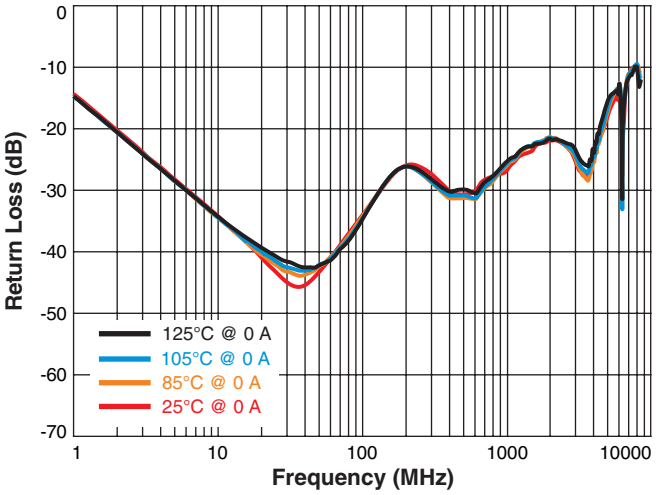
Total Channel Test Setup



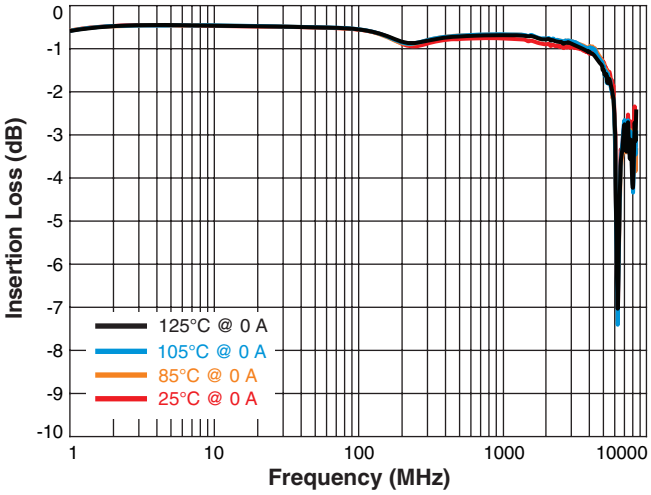
* Solutions measured in a total channel configuration. 2 PCB's with PoC filters on each with a 10 m Leoni Dacar 302 cable interconnect.

PoC Filter Solution – SMD-POC-066

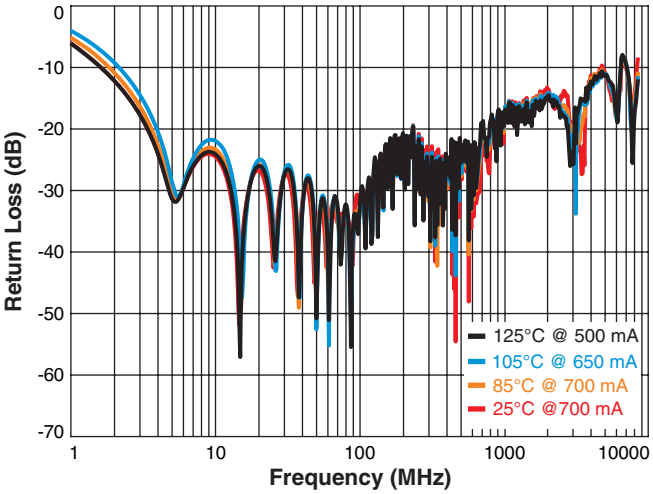
Return Loss (S11, Single board no current)



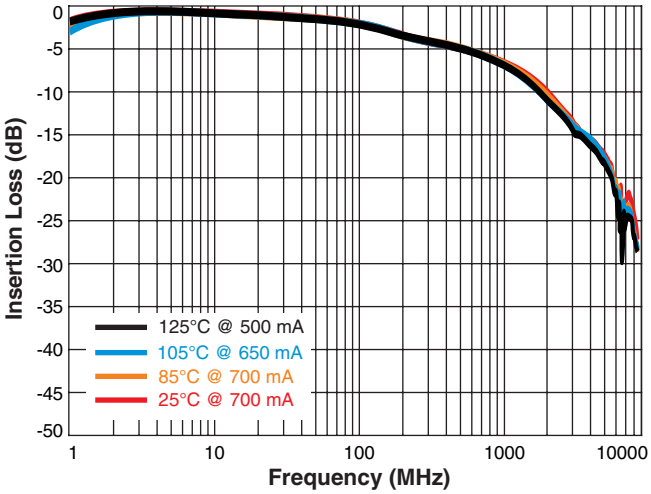
Insertion Loss (S21, Single board no current)



Return Loss (S11, Total Channel Measurements*)



Insertion Loss (S21, Total Channel Measurements*)



* Solutions measured in a total channel configuration. 2 PCB's with PoC filters on each with a 10 m Leoni Dacar 302 cable interconnect.

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Document 1824-2 Revised 09/20/24