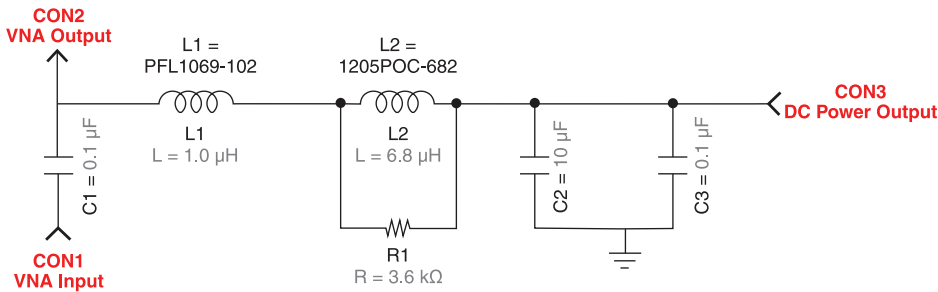


# PoC Filter Solution – SMD-POC-069

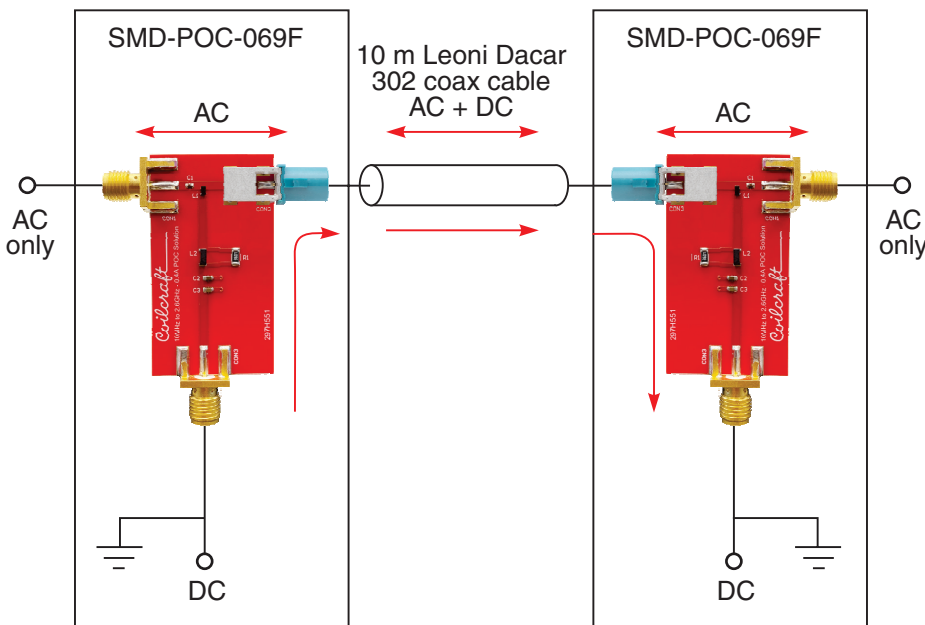
- PoC solution for 10 MHz – 5 GHz applications
- Designed specifically 4 Gbps & 6 Gbps chipsets
- Less than 6.5 mm<sup>2</sup> of board space with 2.4 mm maximum height
- 125°C ambient applications: 450 mA
- 105°C ambient applications: 500 mA
- 85°C ambient applications: 600 mA

Inductors	DCR max. (Ohms)	Max. Area (mm <sup>2</sup> )	Isat (A) 30%				Irms (A)			
			25°C	85°C	105°C	125°C	25°C	85°C	105°C	125°C
PFL1609-102 (1.0 µH)	0.23	1.93	0.85	0.83	0.64	0.48	0.76	0.59	0.53	0.47
1205POC-682 (6.8 µH)	0.51	4.48	0.88	0.80	0.61	0.46	0.67	0.64	0.58	0.52
<b>Totals:</b>	<b>0.74</b>	<b>6.41</b>								

## Schematic



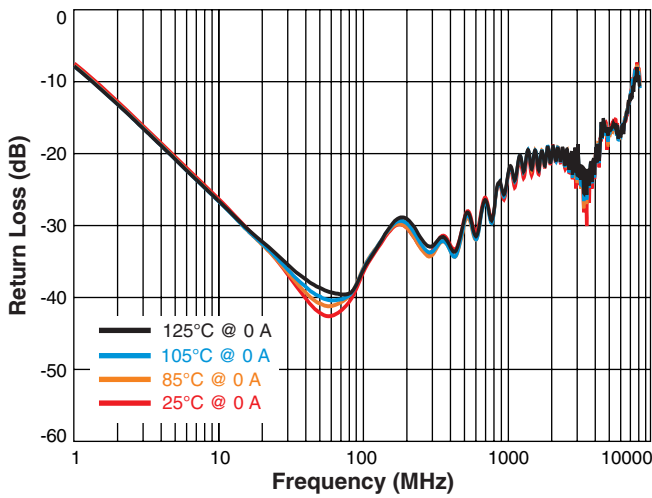
## Total Channel Test Setup



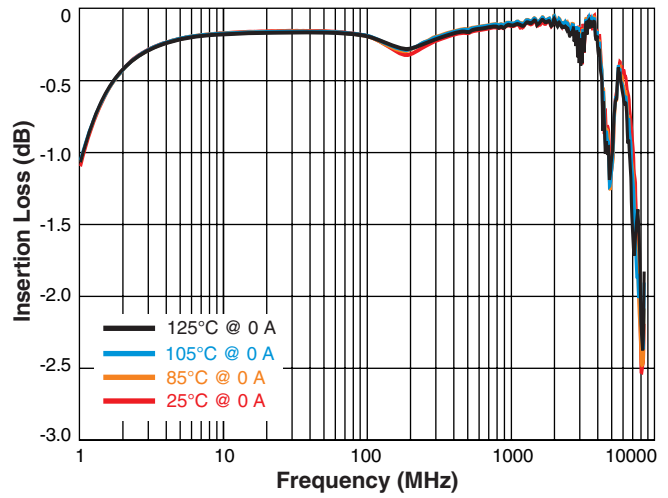
\* Solutions measured in a total channel configuration. 2 PCB's with PoC filters on each with a 10 m Leoni Dacar 302 cable interconnect.

# PoC Filter Solution – SMD-POC-069

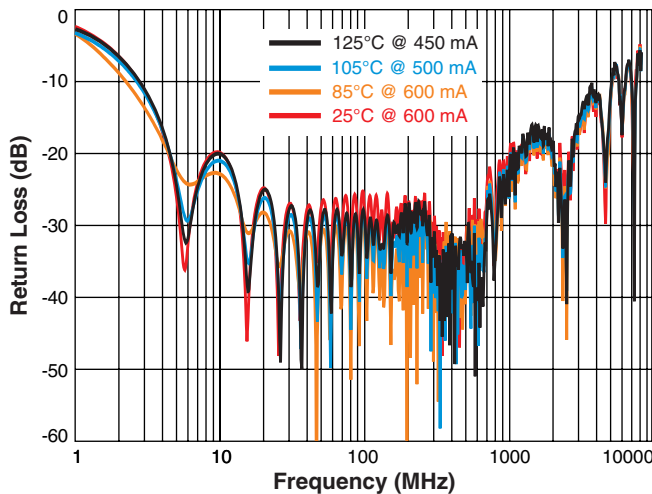
**Return Loss (S11, Single board no current)**



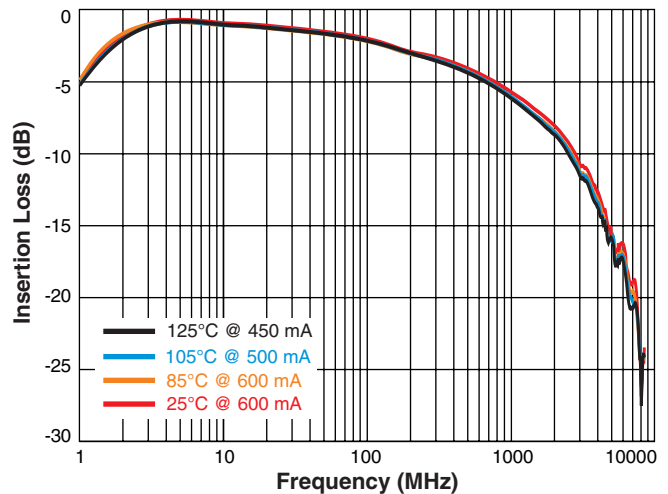
**Insertion Loss (S21, Single board no current)**



**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.