



DATASHEET

SINGLE PHASE EMI FILTER – MF410

Description

These series range of double stage filters give superior performance when used in applications with low Impedance loads controlling pulsed, continuous and intermittent interference noise and where high levels Of mains borne interference are present.

Technical Specifications

|                                      |                                                            |
|--------------------------------------|------------------------------------------------------------|
| Maximum Continuous Operating Voltage | 250VAC                                                     |
| Operating Frequency                  | 50/60Hz                                                    |
| Current ratings                      | 1A to 100A @40°C                                           |
| High Potential test voltage          | L to G 2250Vdc for 1 Minute<br>L to L 1450Vdc for 1 Minute |
| Overload Capability                  | 135% of Rated current for 15 minutes                       |
| Design Corresponding to              | CSA 22.2 No.8-13 and UL 60939-9                            |
| Flammability corresponding to        | UL 94 V-0                                                  |
| Temperature range                    | -25°C to +85°C                                             |
| Climatic Category                    | 25/85/21                                                   |
| Enclosure Material/Finish            | CRCA/Nickel Plated – 1A to 30A<br>Aluminium – 35A to 100A  |

Approval & Compliance



Features

- Double stage filter
- Medical Version available
- Superior Performance
- Chassis mounting

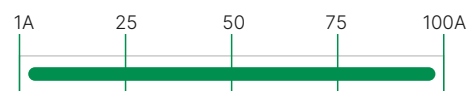
Applications

- Power Systems
- Electronic Equipment
- Frequency converters
- Stepper motor drives
- UPS/Inverters

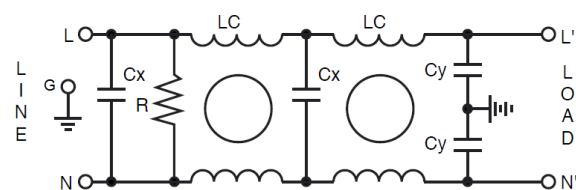
Performance Indicator



Rated current [A]



Typical circuit Diagram

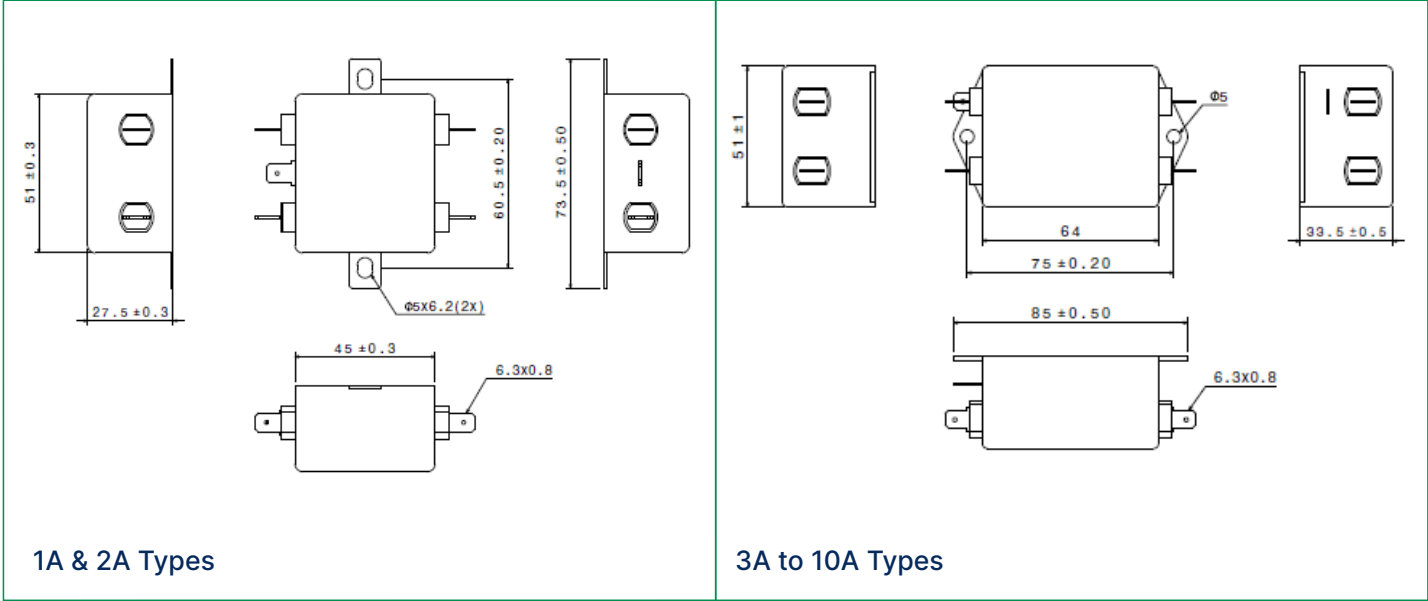


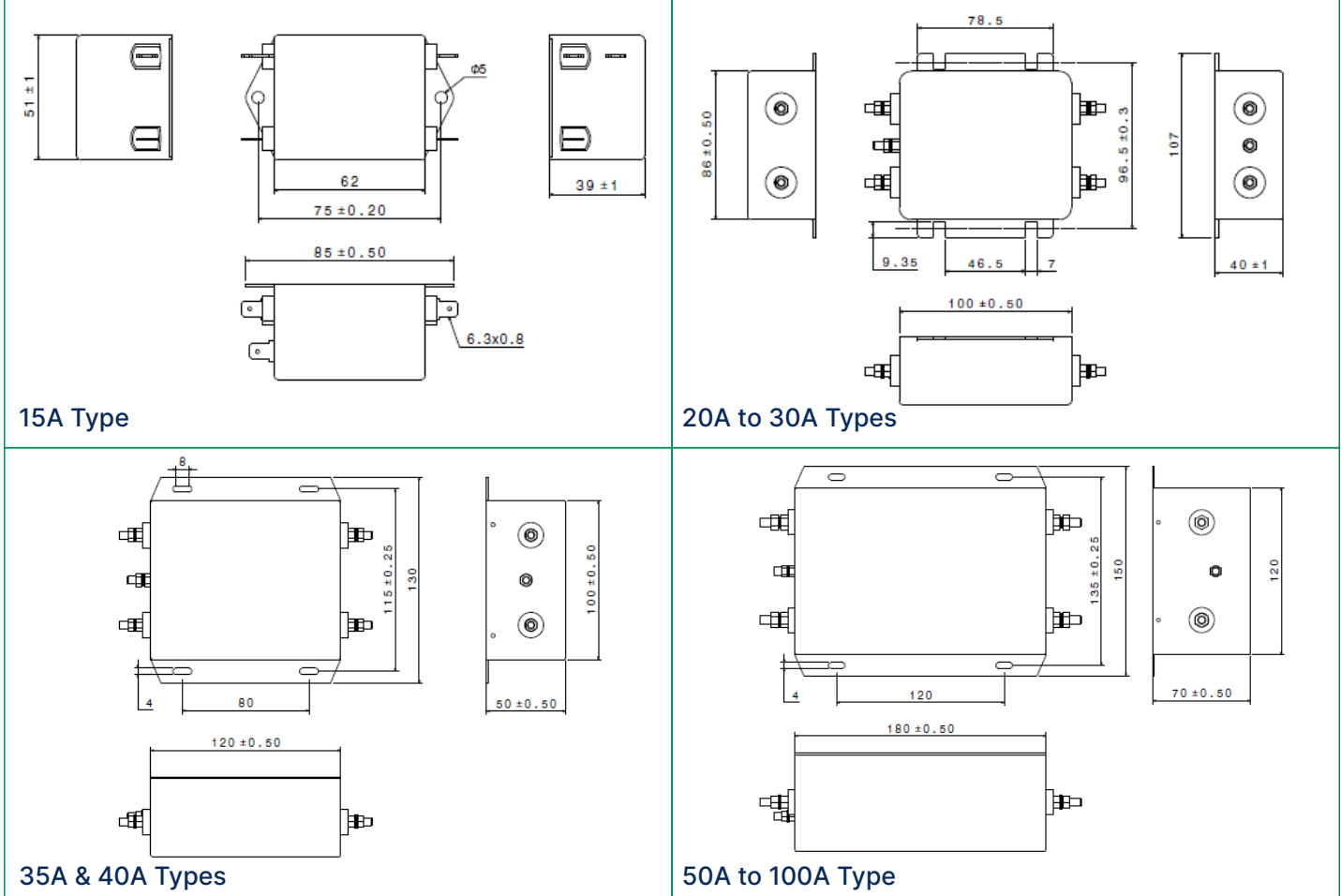
Ordering Code Information

| Part Number | Ordering Code | Rated Current<br>@40°C | Leakage Current<br>@250VAC/50Hz (mA) | Termination                                                                         |                                                                                     | Weight<br>(Kgs) |
|-------------|---------------|------------------------|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|             |               |                        |                                      |  |  |                 |
| MF410       | E100019-2     | 1A                     | 0.34                                 | 6.3 x 0.8                                                                           |                                                                                     | 0.125           |
| MF410       | E100019-3     | 2A                     | 0.34                                 | 6.3 x 0.8                                                                           |                                                                                     | 0.125           |
| MF410       | E100019-4     | 3A                     | 0.34                                 | 6.3 x 0.8                                                                           |                                                                                     | 0.18            |
| MF410       | E100019-5     | 6A*                    | 0.34                                 | 6.3 x 0.8                                                                           |                                                                                     | 0.18            |
| MF410       | E100019-6     | 10A                    | 0.34                                 | 6.3 x 0.8                                                                           |                                                                                     | 0.18            |
| MF410       | E100019-7     | 15A                    | 0.34                                 | 6.3 x 0.8                                                                           |                                                                                     | 0.26            |
| MF410       | E100019-8     | 20A                    | 0.73                                 |                                                                                     | M5                                                                                  | 0.6             |
| MF410       | E100019-9     | 25A                    | 0.73                                 |                                                                                     | M5                                                                                  | 0.6             |
| MF410       | E100019-10    | 30A                    | 0.73                                 |                                                                                     | M5                                                                                  | 0.6             |
| MF410       | E100019-11    | 35A*                   | 0.73                                 |                                                                                     | M5                                                                                  | 1               |
| MF410       | E100019-12    | 40A                    | 0.73                                 |                                                                                     | M5                                                                                  | 1               |
| MF410       | E100019-13    | 50A                    | 0.73                                 |                                                                                     | M6                                                                                  | 3               |
| MF410       | E100019-14    | 60A*                   | 0.73                                 |                                                                                     | M6                                                                                  | 3               |
| MF410       | E100019-15    | 100A*                  | 0.73                                 |                                                                                     | M8                                                                                  | 3               |

Note : \*not covered under NEMKO

Mechanical Drawing

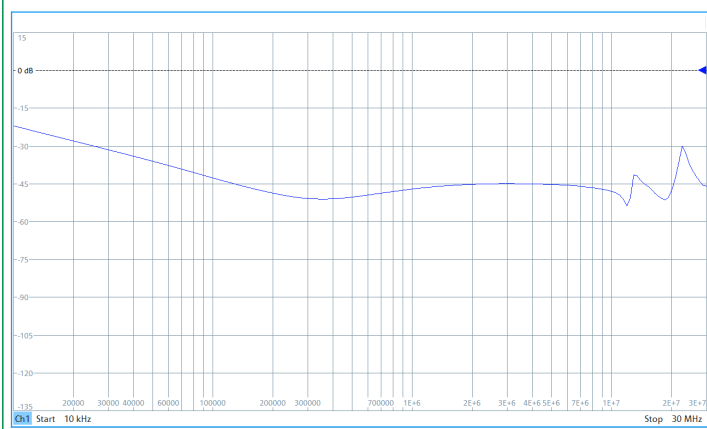




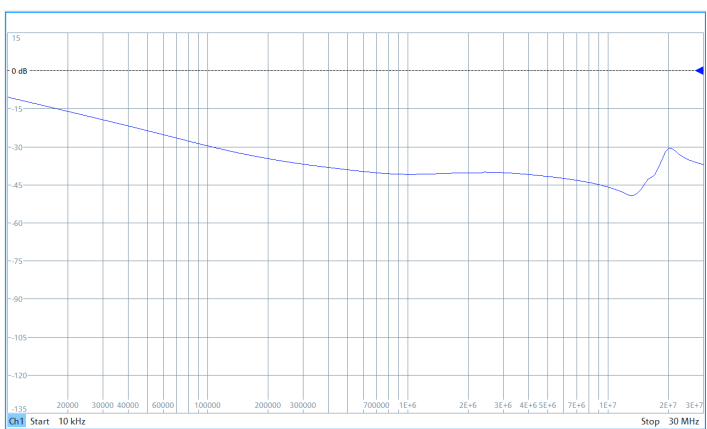
|                         |     |       |       |       |
|-------------------------|-----|-------|-------|-------|
| Thread Size             | M5  | M6    | M8    | M10   |
| Recommended Torque (Nm) | 2-3 | 3.5-4 | 10-14 | 15-17 |

Note: All dimensions in mm; Tolerances according to ISO2768-m

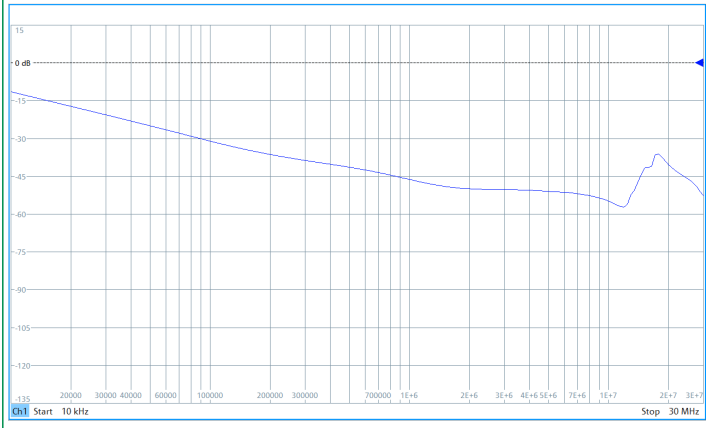
Insertion Loss – (Common Mode)



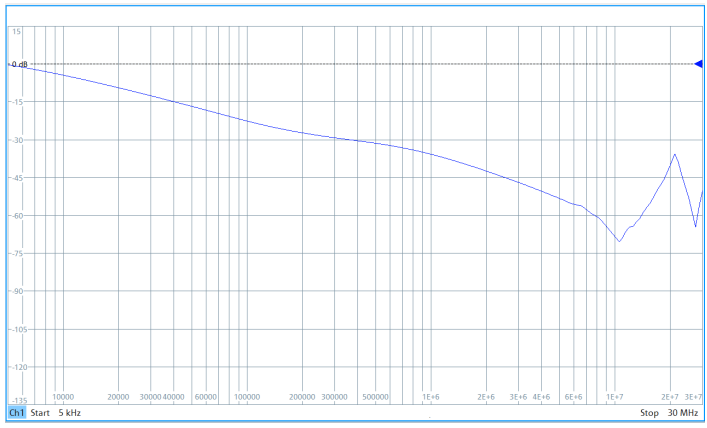
1A



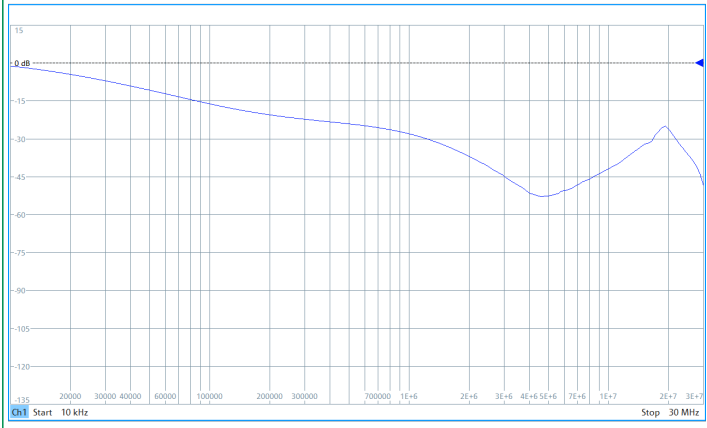
2A



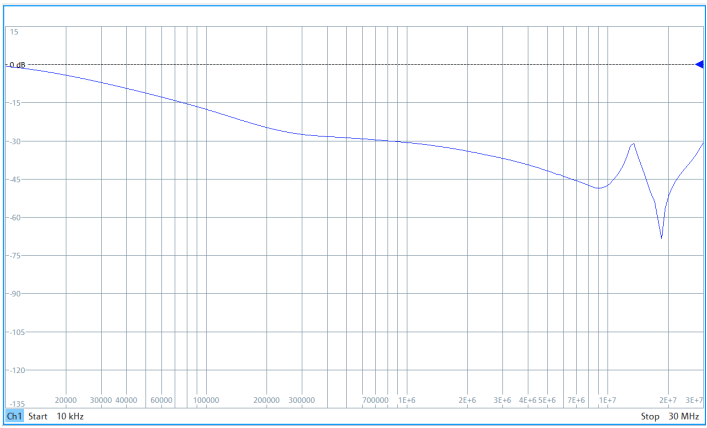
3A



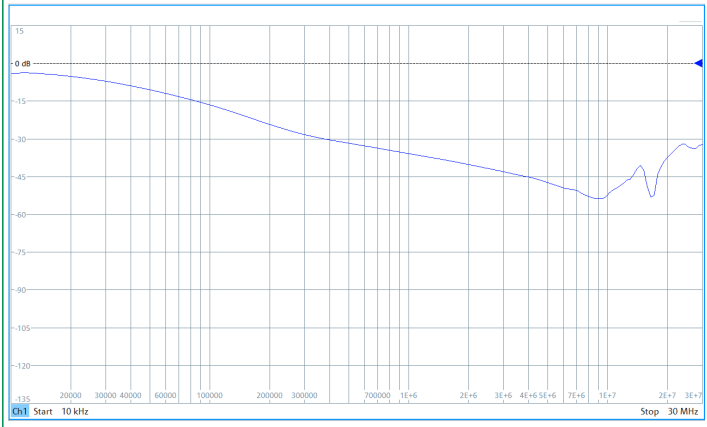
6A



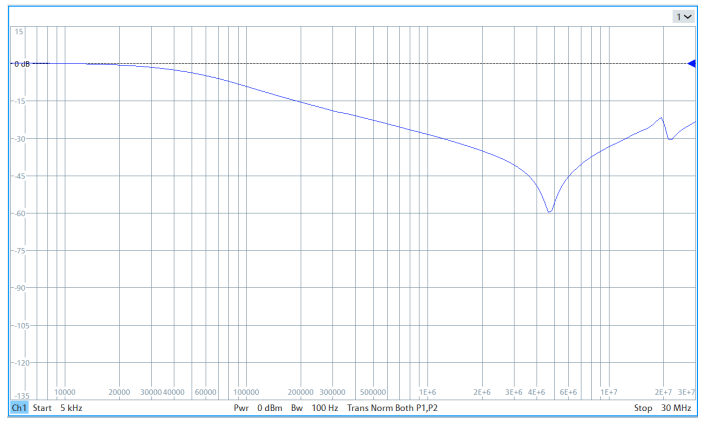
10A



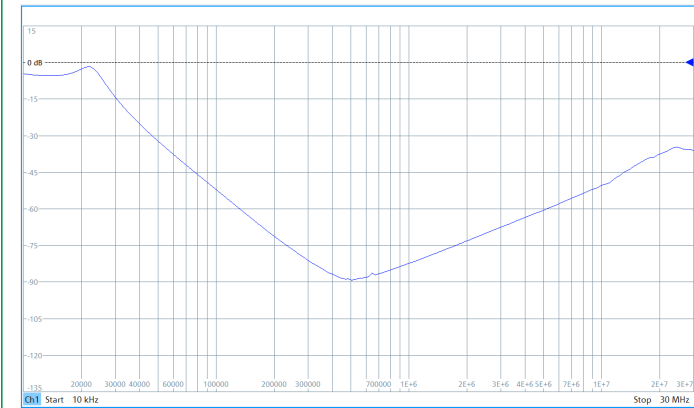
15A



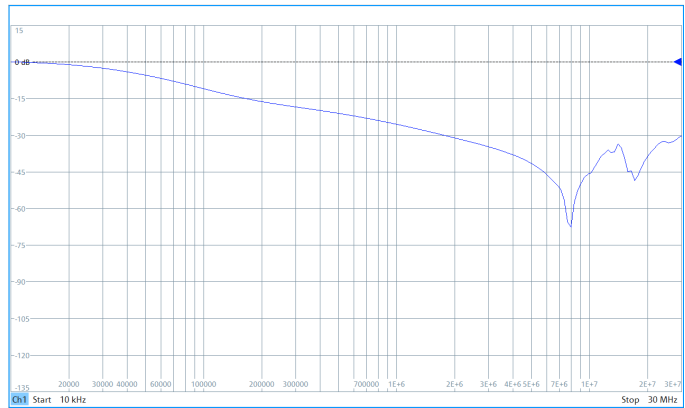
20A



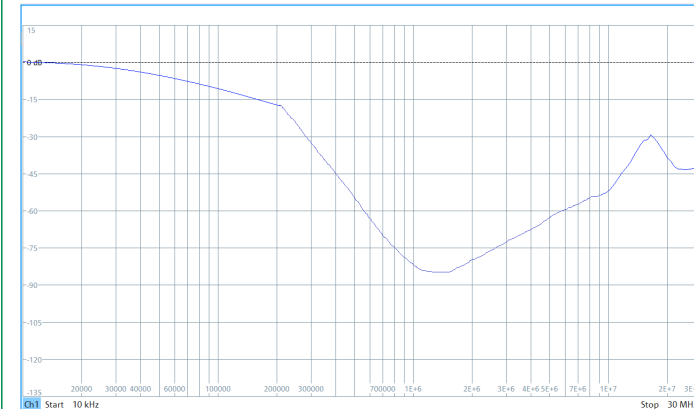
25A



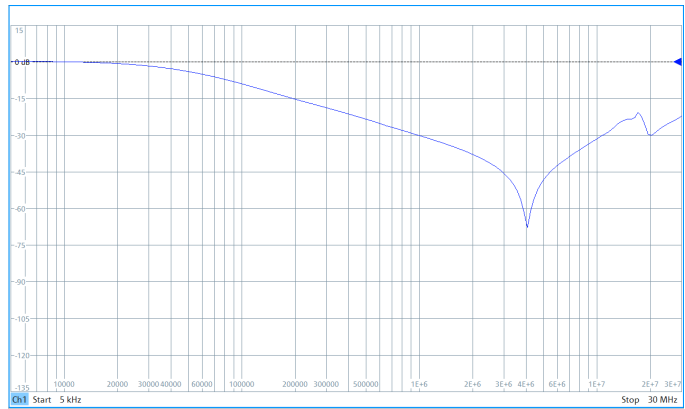
30A



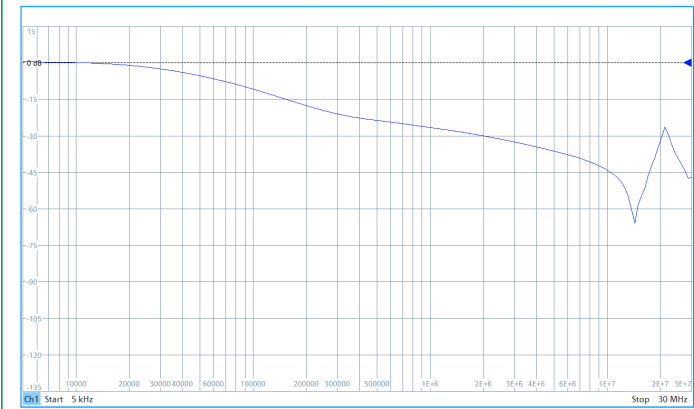
35A



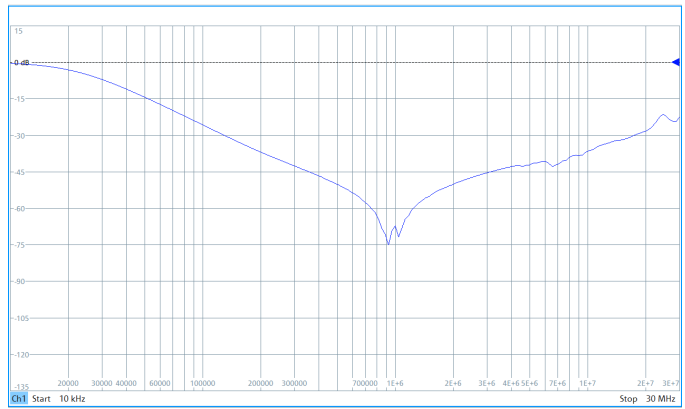
40A



50A

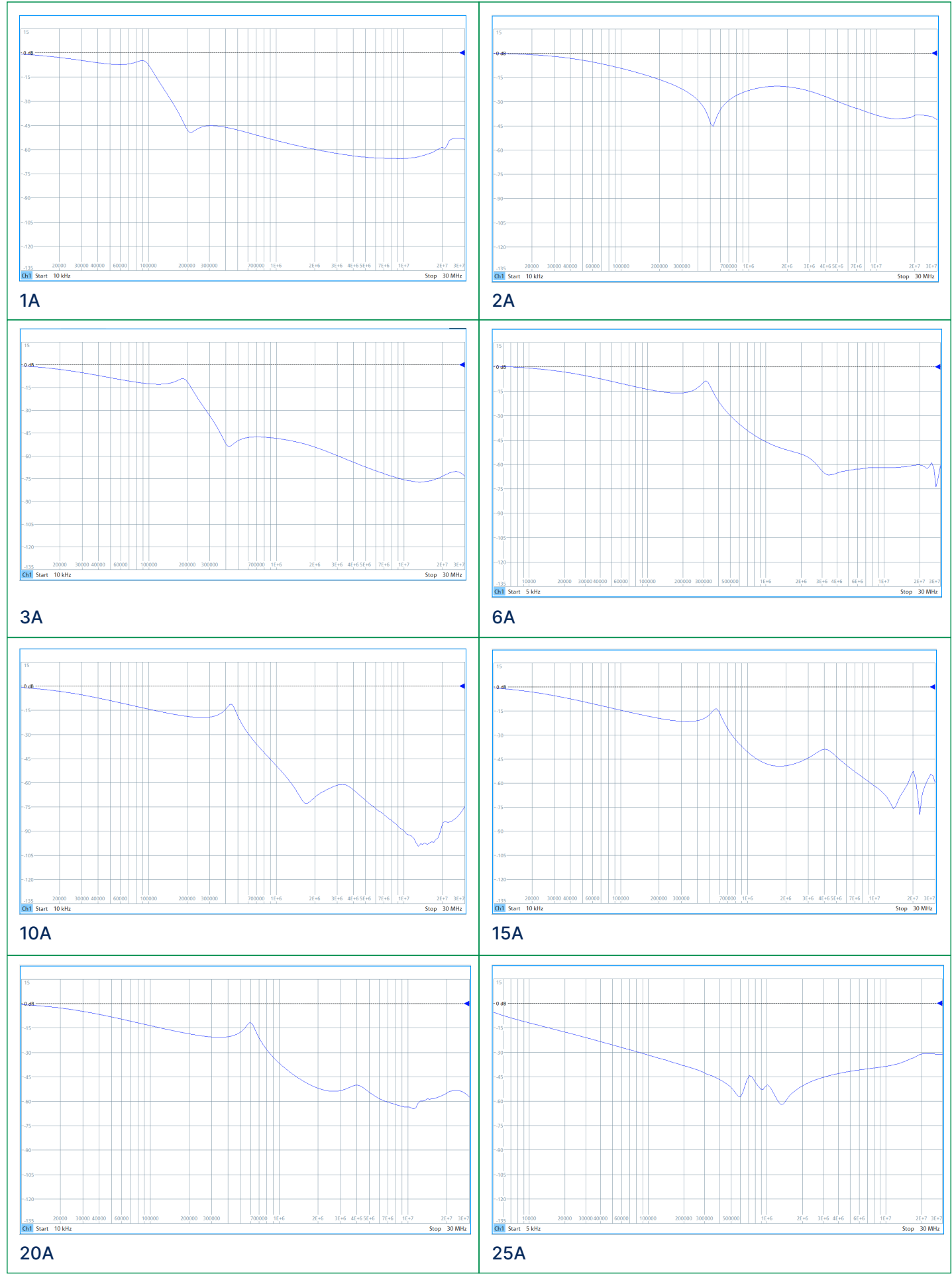


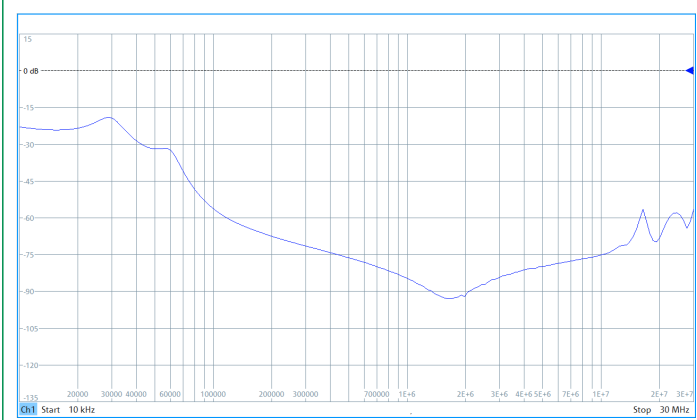
60A



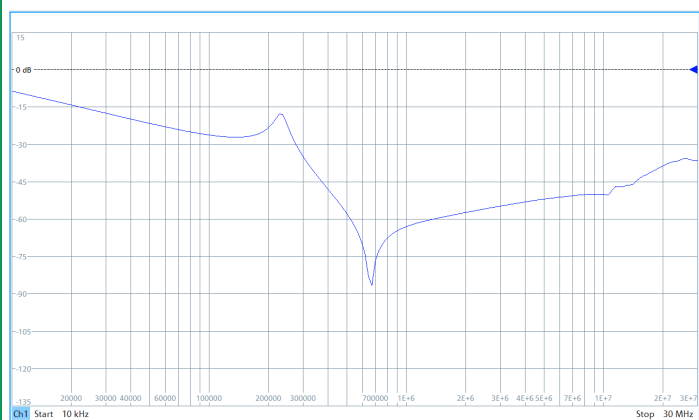
100A

Insertion Loss - (Differential Mode)

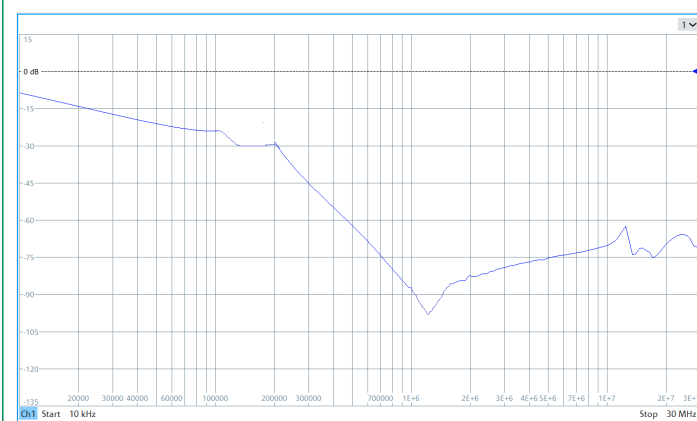




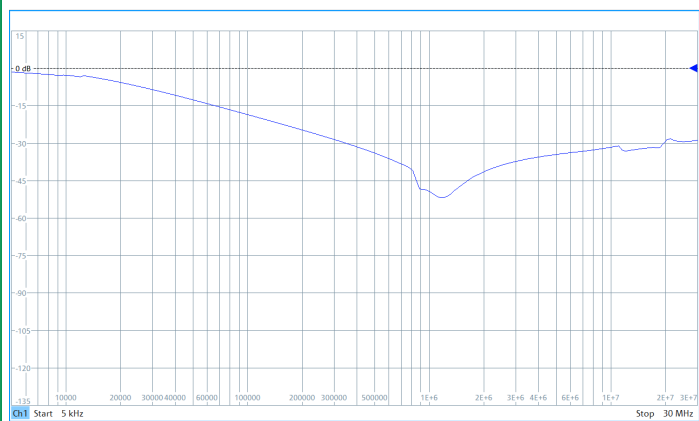
30A



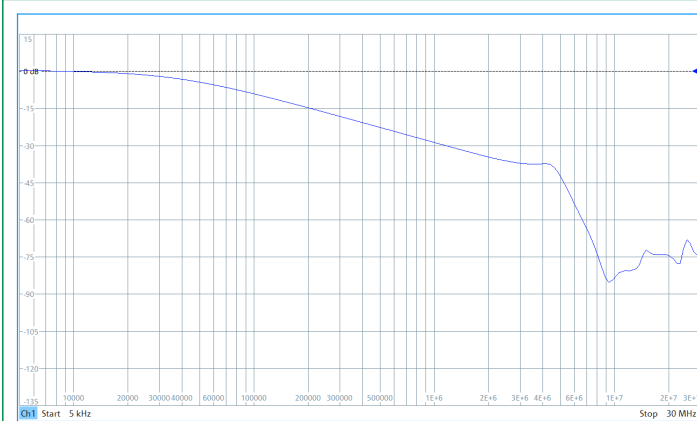
35A



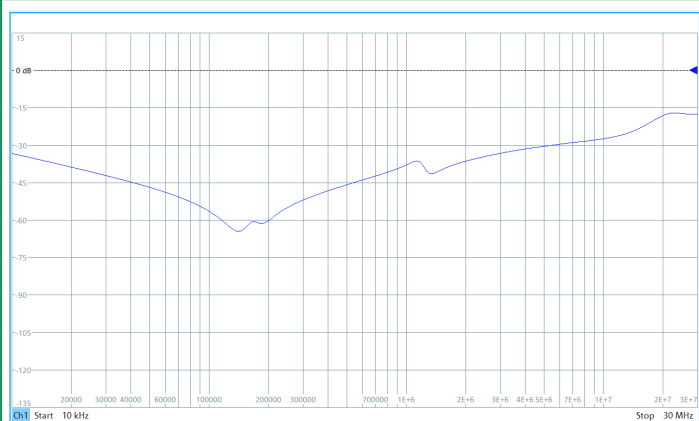
40A



50A



60A



100A