

Modular Power EMI Filter

High performance, high-reliability, configurable catalog EMI filter where SWaP-C is a critical factor

Features

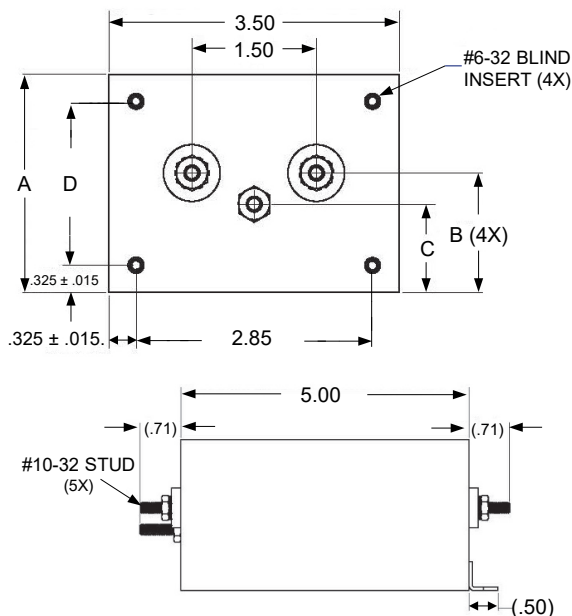
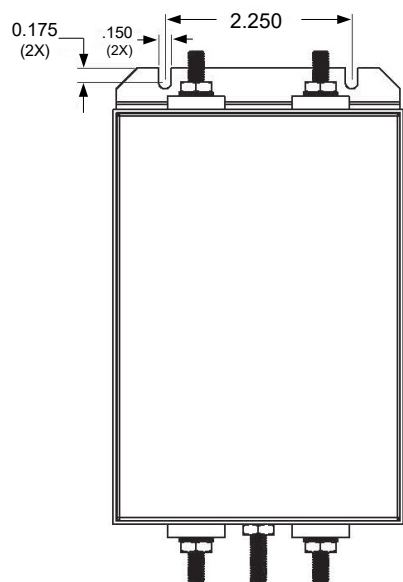
- Wide variety family of configurable modular standard high performance, small size, EMI filter products to choose
- Rugged, high reliability design with high common and differential mode attenuation
- Excellent insertion loss characteristics up to 1GHz and beyond
- Vertically integrated design and manufacturing of rugged, high-reliability filters
- Rugged modeling capability (structural, thermal, electrical) providing outstanding analytical design support
- Higher operating temperature under full load (+65°C) versus industry standard (+40°C)
- Climatic category: 30/085/21
- Built in accordance to the following safety principles:
 - UL 60939-3
 - CSA 22.2 No. 8-13
 - UL File #: E525138, Vol. 1

Applications

- Industrial automation & controls
- Medical equipment
- Renewable energy & smart grid
- Railroads & infrastructure
- Telecommunications & data/cloud storage
- Military surface systems



Mechanical Specifications

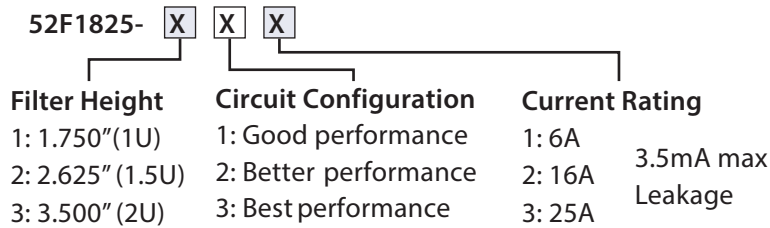


	-1XX	-2XX	-3XX
A	1.75	2.62	3.50
B	1.00	1.44	1.88
C	0.62	1.06	1.50
D	1.10	1.98	2.85

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Part Number Configuration



See page 3 for circuit configuration

*see pages 4-6 to compare IL data

Electrical Specifications

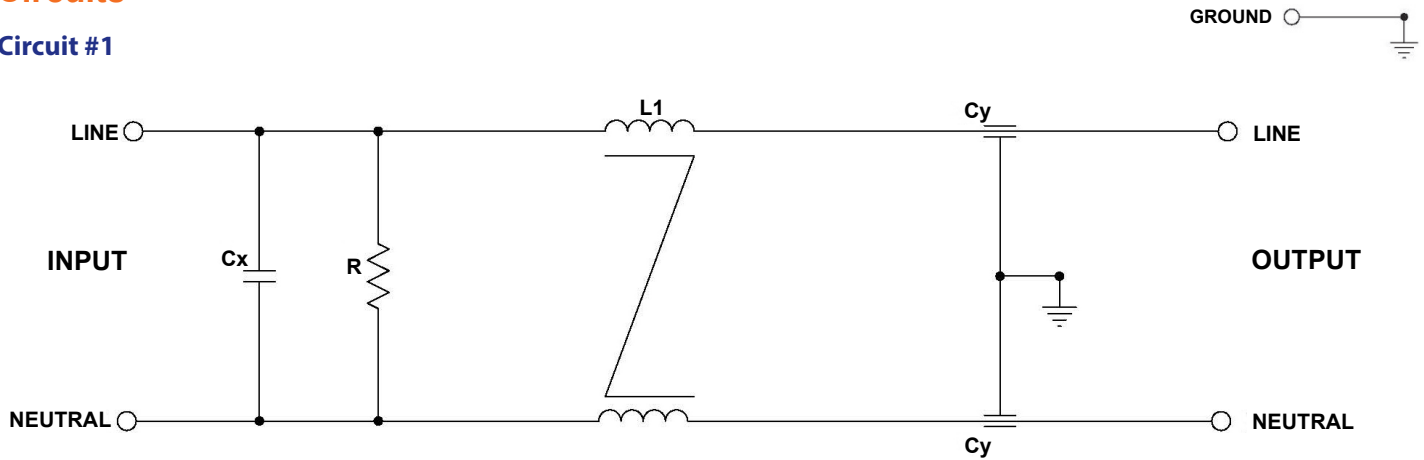
Part Number	Filter Height	*IL Performance	Current (Amps)	Voltage	Frequency	Leakage Current (Max)
52F1825-111	1U (1.75" / 44.45mm)	Good	6	120 / 240 VAC	50 / 60 Hz	3.5 mA
52F1825-121	1U (1.75" / 44.45mm)	Better				
52F1825-131	1U (1.75" / 44.45mm)	Best				
52F1825-211	1.5U (2.625" / 66.68mm)	Good				
52F1825-221	1.5U (2.625" / 66.68mm)	Better				
52F1825-231	1.5U (2.625" / 66.68mm)	Best				
52F1825-311	2U (3.50" / 88.9mm)	Good				
52F1825-321	2U (3.50" / 88.9mm)	Better				
52F1825-331	2U (3.50" / 88.9mm)	Best				
52F1825-112	1U (1.75" / 44.45mm)	Good	16			
52F1825-122	1U (1.75" / 44.45mm)	Better				
52F1825-132	1U (1.75" / 44.45mm)	Best				
52F1825-212	1.5U (2.625" / 66.68mm)	Good				
52F1825-222	1.5U (2.625" / 66.68mm)	Better				
52F1825-232	1.5U (2.625" / 66.68mm)	Best				
52F1825-312	2U (3.50" / 88.9mm)	Good				
52F1825-322	2U (3.50" / 88.9mm)	Better				
52F1825-332	2U (3.50" / 88.9mm)	Best				
52F1825-113	1U (1.75" / 44.45mm)	Good	25			
52F1825-123	1U (1.75" / 44.45mm)	Better				
52F1825-133	1U (1.75" / 44.45mm)	Best				
52F1825-213	1.5U (2.625" / 66.68mm)	Good				
52F1825-223	1.5U (2.625" / 66.68mm)	Better				
52F1825-233	1.5U (2.625" / 66.68mm)	Best				
52F1825-313	2U (3.50" / 88.9mm)	Good				
52F1825-323	2U (3.50" / 88.9mm)	Better				
52F1825-333	2U (3.50" / 88.9mm)	Best				

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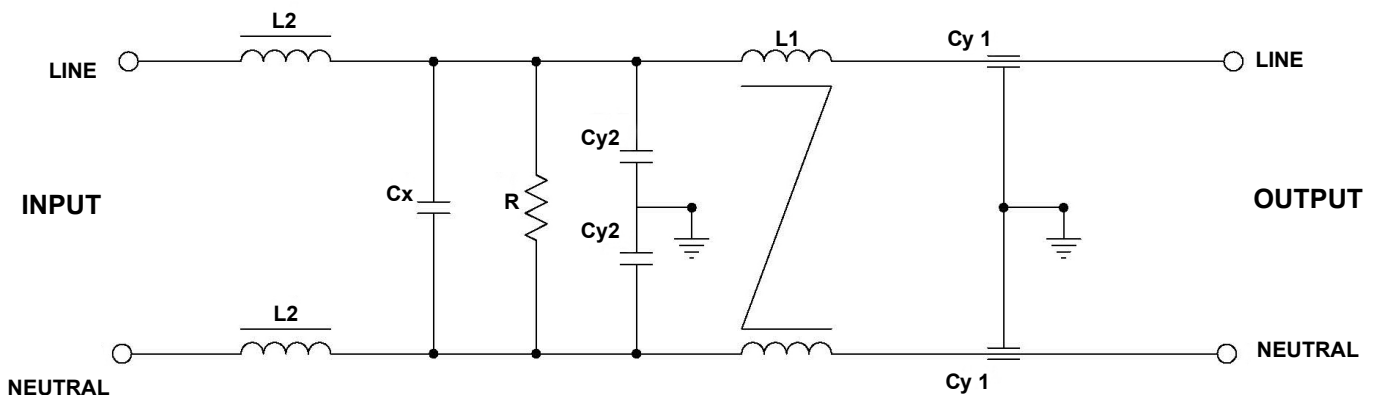
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Circuits

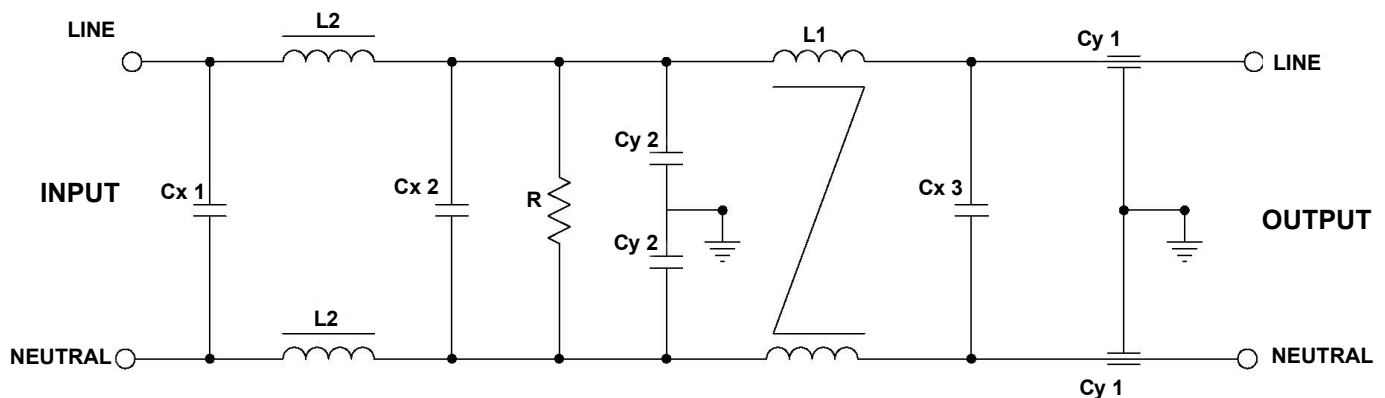
Circuit #1



Circuit #2



Circuit #3



Modular Power Filter

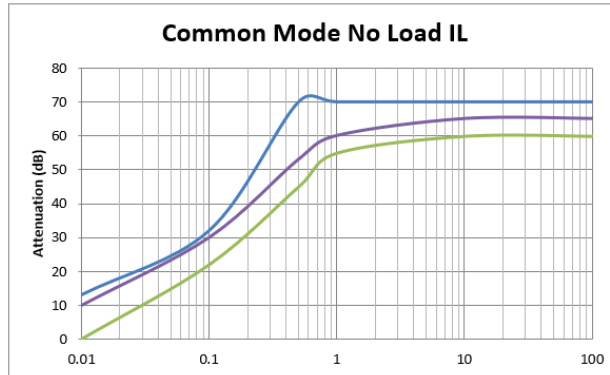
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Typical Insertion Loss by Part Number

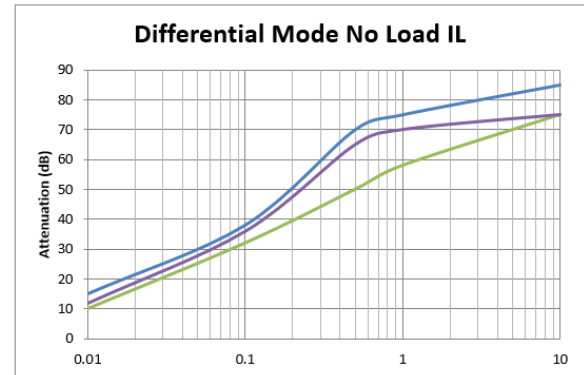
GOOD

BETTER

BEST

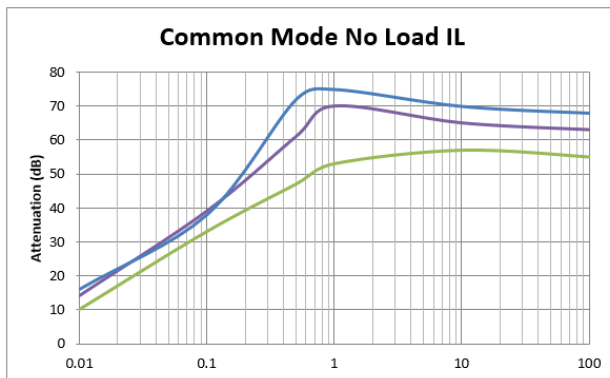


52F1825-111

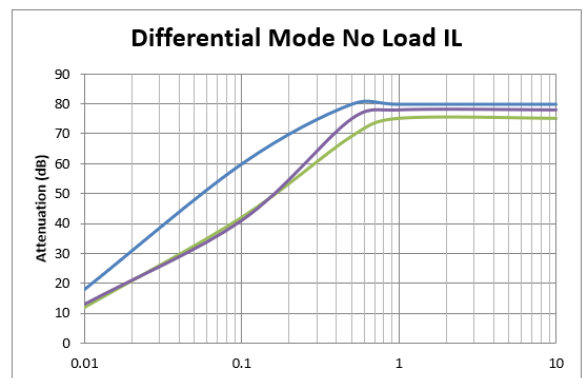


52F1825-121

52F1825-131

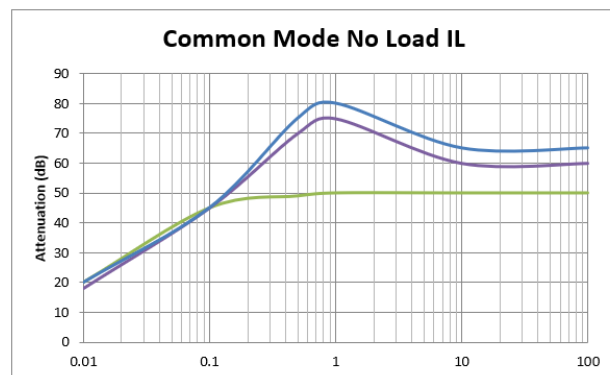


52F1825-211

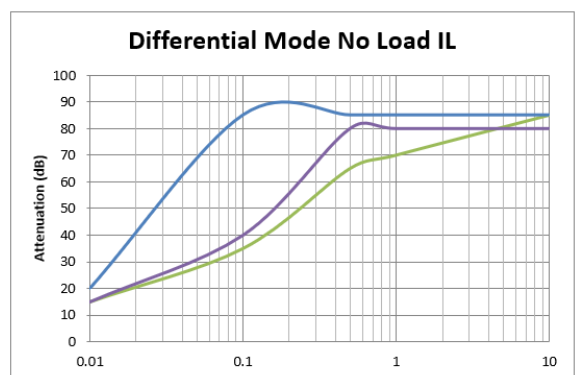


52F1825-221

52F1825-231



52F1825-311



52F1825-321

52F1825-331

Modular Power Filter

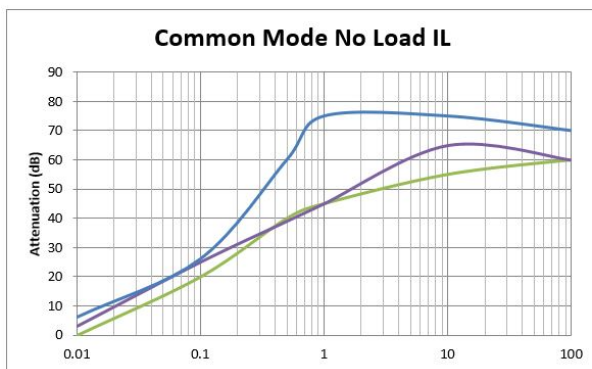
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Typical Insertion Loss by Part Number

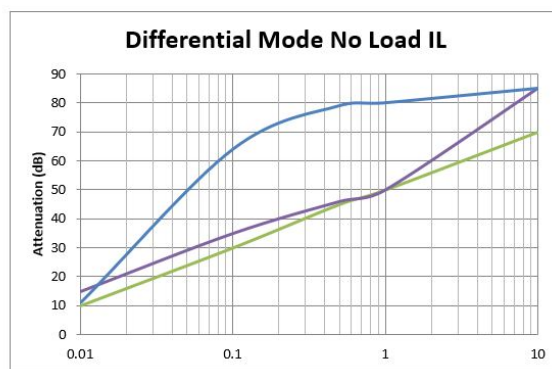
GOOD

BETTER

BEST

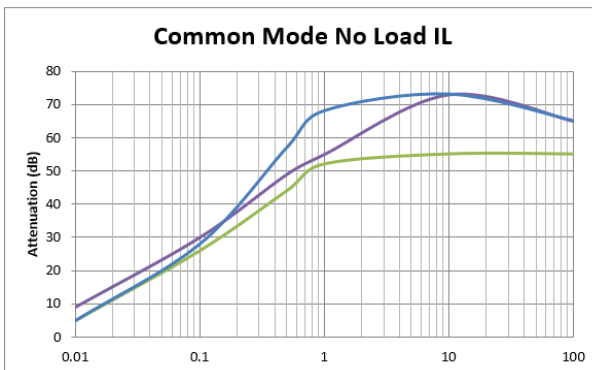


52F1825-112

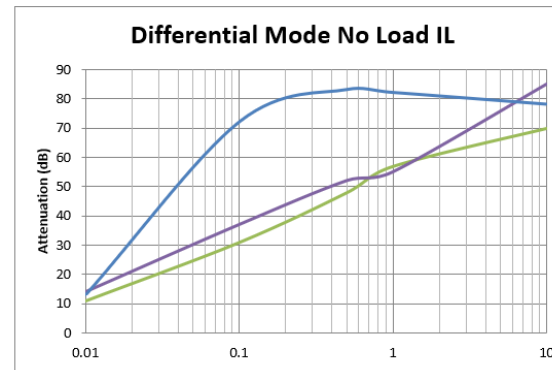


52F1825-122

52F1825-132

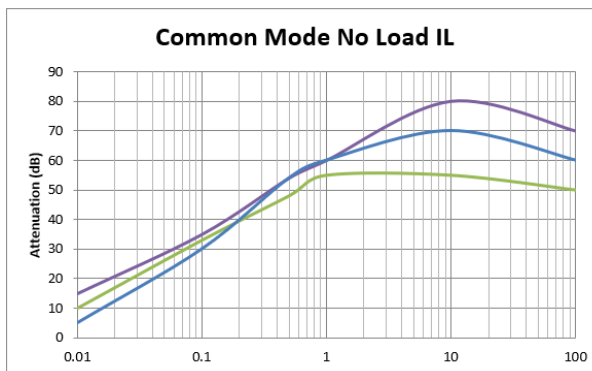


52F1825-212

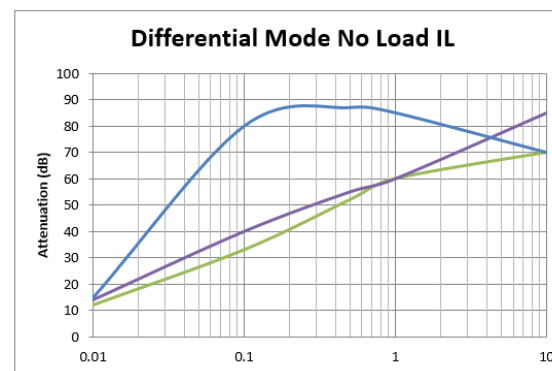


52F1825-222

52F1825-232



52F1825-312



52F1825-322

52F1825-332

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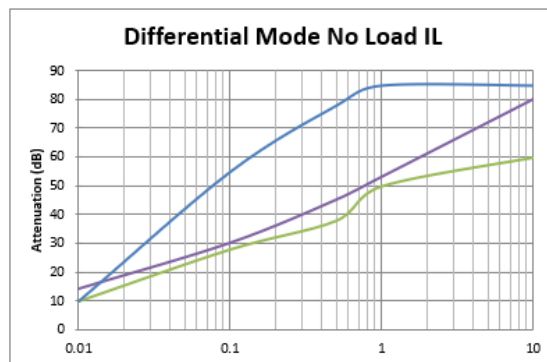
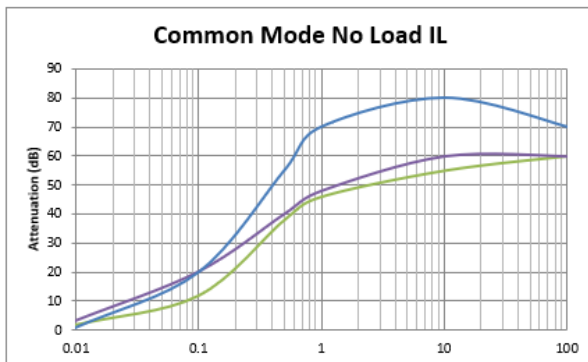
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Typical Insertion Loss by Part Number

GOOD

BETTER

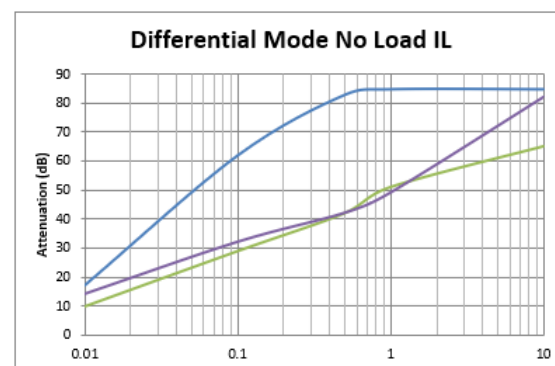
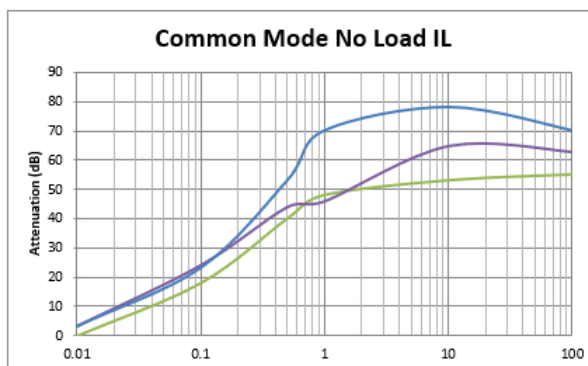
BEST



52F1825-113

52F1825-123

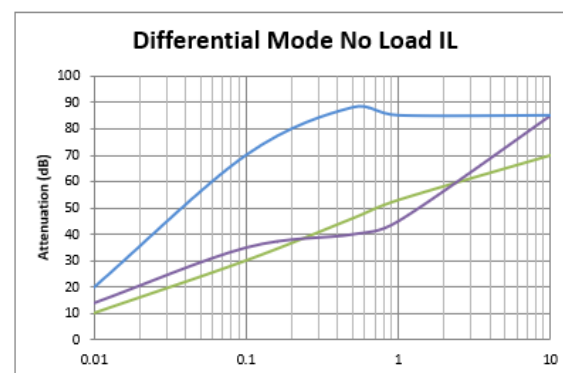
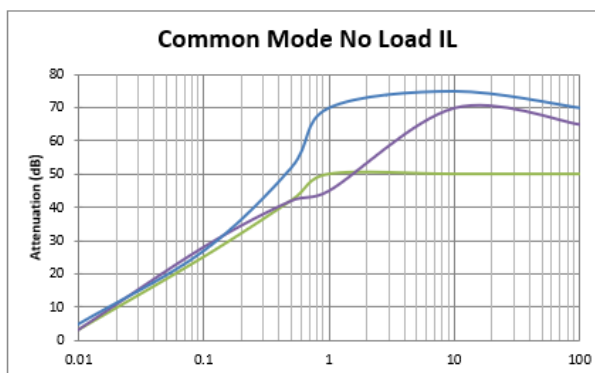
52F1825-133



52F1825-213

52F1825-223

52F1825-233



52F1825-313

52F1825-323

52F1825-333