

PEA Series

CHASSIS MOUNT, HIGH PERFORMANCE, SINGLE STAGE EMI/RFI LINE FILTER.



FEATURES

The PEA series offers wide variety of EMI filters in numerous packages and current ratings. This series offers superior performance in controlling EMI suppression in Line-to-Line noise up to 30 Amp, 250VAC.

These filters are also available for Medical application. The absence of C(y) capacitors offer extremely low leakage current to comply with various industry standards especially for medical equipment with Switching power supplies.

APPLICATIONS

Computer & networking equipment, Measuring & control equipment, Data processing equipment, laboratory instruments, Switching power supplies, other electronic equipment.

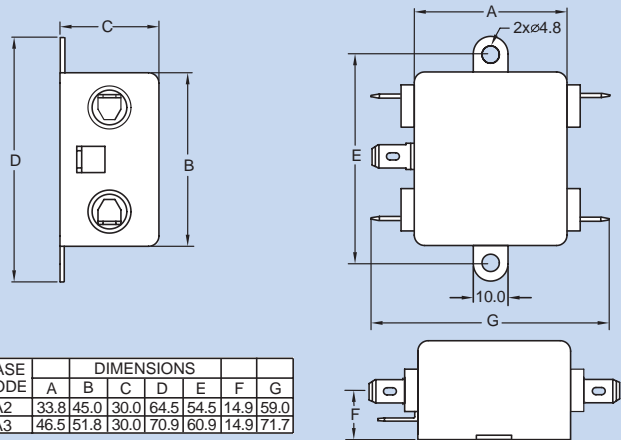
TECHNICAL DATA

- Rated Voltage: 115/250VAC
- Rated Current: 1A, 2A, 3A, 5A, 6A, 10A, 15A, 20A, 30A
- Power Line Frequency: 50/60Hz
- Max. Leakage Current each Line to Ground:
 - @ 115VAC 60Hz: 0.25mA
 - @ 250VAC 50Hz: 0.45mA
 - @ 115VAC 60Hz: 2 μ A*
 - @ 250VAC 50Hz: 5 μ A*
- Hipot Rating (one minute)
 - Line to Ground: 2250VDC
 - Line to Line: 1450VDC
- Temperature Range: -25C to +85C

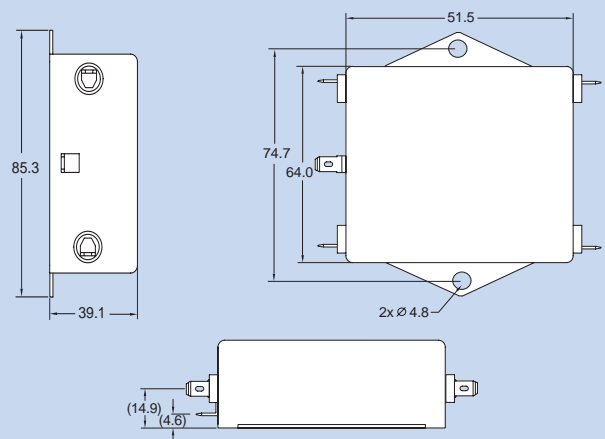
* Medical application

MECHANICAL DIMENSIONS (Unit: mm)

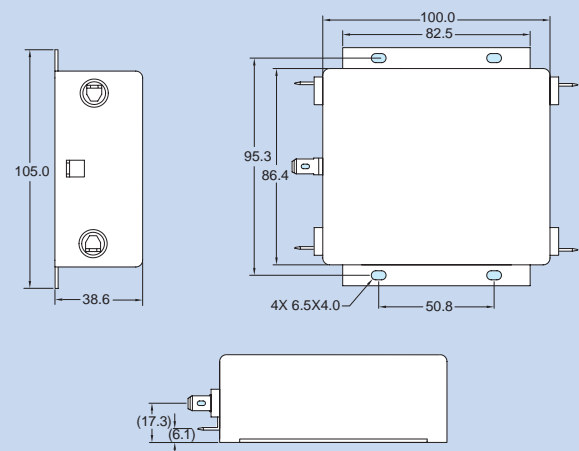
A2, A3



B1



G1




Specifications subject to change without notice. Dimensions (mm).

PEA Series Example & Ordering Code

PEA 01 Q - 50 - 1 C

CURRENT RATING (A):

- = 01
- = 02
- = 03
- = 05
- = 06
- = 10
- = 15
- = 20
- = 30

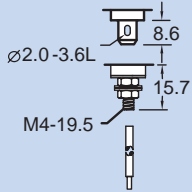


TERMINAL:
6.3/0.25

QUICK CONNECT = Q

SCREW = PS

WIRE = W



UL 1015, 18AWG STRANDED, 4"

OPTIONS:

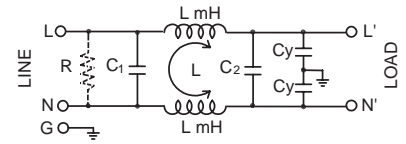
- NO BLEEDER RESISTOR = 00
- BLEEDER RESISTOR (1W, 2.2M) = 50

COMPONENT LOCATIONS:

- STANDARD TYPE = 1
- WITHOUT C(Y); C(X) ONLY = 1M

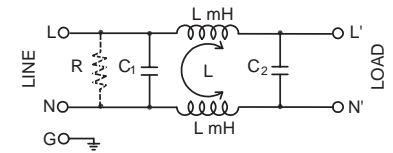
SCHEMATIC

1



MEDICAL SCHEMATIC

1M



ATTENUATION CODE TABLE:

Non-Medical applications: Select the Attenuation Code with corresponding component values and case code.

Case Code	Cx1,2 (µF)	Cy (pF)	Inductance Per Current Rating (mH)										
			1A	2A	3A	5A	6A	10A	15A	20A	30A		
A2	0.22	3300	10.0	2.5	2.0	1.2	0.8	1.2	0.9	0.5	*	= A	
A2	0.1	3300	10.0	2.5	2.0	1.2	0.8	1.2	0.9	0.5	*	= B	
A3	0.22	3300	20.0	10.0	8.0	4.0	2.0	1.2	0.9	0.7	0.3	= C	
A3	0.1	3300	20.0	10.0	8.0	4.0	2.0	1.2	0.9	0.7	0.3	= D	
B1	0.22	3300	*	*	*	*	*	1.5	*	0.9	0.3	= E	
B1	0.1	3300	*	*	*	*	*	1.5	*	0.9	0.3	= F	
G1	0.22	3300	*	*	*	*	*	4.0	3.0	2.0	1.5	= G ⁺	
G1	0.1	3300	*	*	*	*	*	4.0	3.0	2.0	0.5	= H ⁺	

Medical applications: Select the Attenuation Code with corresponding component values and case code.

Case Code	Cx1,2 (µF)	Inductance Per Current Rating (mH)										
		1A	2A	3A	5A	6A	10A	15A	20A	30A		
A2	0.22	10.0	2.5	2.0	1.2	0.8	1.2	0.9	0.5	*	= M0	
A2	0.1	10.0	2.5	1.2	1.0	0.8	1.2	0.9	0.5	*	= M1	
A3	0.22	20.0	10.0	8.0	4.0	2.0	1.2	0.9	0.7	0.3	= M2	
A3	0.1	20.0	10.0	8.0	4.0	2.0	1.2	0.9	0.7	0.3	= M3	
B1	0.22	*	*	*	*	*	1.5	*	0.9	0.3	= M4	
B1	0.1	*	*	*	*	*	1.5	*	0.9	0.3	= M5	
G1	0.22	*	*	*	*	*	4.0	3.0	2.0	1.5	= M6 ⁺	
G1	0.1	*	*	*	*	*	4.0	3.0	2.0	0.5	= M7 ⁺	

* Contact PDI

+ Q or PS option only

PEA Series Attenuation Tables

Non-Medical Applications

Insertion loss in dB (50 Ohm circuit)

Attenuation Code	Current Rating	Comm.Mode(L-G) in MHz						Diff. mode(L-L) in MHz					
		.15	.5	1	5	10	30	.15	.5	1	5	10	30
A	1A	34	41	43	43	43	33	2	18	30	62	61	22
	2A	24	31	38	52	53	41	6	51	73	68	58	29
	3A	21	28	33	47	51	46	15	55	75	65	52	21
	5A	22	33	38	50	54	46	3	51	73	71	57	26
	6A	12	18	22	38	50	37	4	47	68	56	44	26
	10A	19	30	34	47	52	43	0	49	71	65	52	24
B	1A	34	41	43	44	47	43	18	53	70	65	46	31
	2A	24	32	38	52	54	42	3	36	55	72	59	30
	3A	21	29	33	47	52	47	0	40	58	69	54	22
	5A	22	33	38	51	58	43	8	36	56	74	59	27
	6A	15	20	25	42	54	37	10	32	53	63	51	30
	10A	19	30	34	47	52	43	5	33	53	68	54	24
C	1A	47	47	43	43	53	41	34	68	85	62	41	22
	2A	34	42	43	45	49	41	33	67	84	66	45	30
	3A	34	41	42	43	47	32	31	66	80	65	43	30
	5A	27	34	39	50	52	51	23	60	78	70	52	13
	6A	21	29	33	47	51	45	14	54	74	66	52	20
	10A	19	30	34	47	53	43	1	49	70	65	52	23
D	1A	45	48	43	43	49	42	19	53	71	62	41	23
	2A	35	42	44	44	48	42	18	53	69	66	45	31
	3A	33	41	43	43	45	32	15	50	67	65	43	31
	5A	27	34	39	50	53	47	4	44	62	71	53	13
	6A	21	29	33	47	51	44	0	39	58	67	52	20
	10A	19	30	34	47	53	43	5	34	53	66	52	24
E	1A	15	19	22	40	49	42	1	9	18	62	61	29
	2A	19	23	27	42	48	43	1	8	15	65	57	27
	3A	11	17	22	35	42	38	2	8	14	35	55	28
	5A	16	20	31	43	53	43	8	19	29	63	57	29
	6A	19	24	30	45	53	44	8	18	25	60	58	28
	10A	11	18	24	40	50	36	8	18	24	53	51	28
F	10A	30	36	42	53	54	51	17	57	77	70	56	23
	15A	26	33	38	52	56	48	23	60	83	72	57	21
	20A	24	31	36	51	57	48	17	57	78	69	55	21
	30A	21	27	33	48	53	43	14	56	78	68	55	25
G	10A	30	37	42	53	55	52	7	47	66	74	56	15
	15A	28	33	38	52	55	47	2	45	64	73	57	23
	20A	24	31	36	51	56	47	3	41	61	71	56	22
	30A	21	27	33	49	56	44	4	41	60	70	56	27
H	10A	30	37	42	53	55	52	7	47	66	74	56	15
	15A	28	33	38	52	55	47	2	45	64	73	57	23
	20A	24	31	36	51	56	47	3	41	61	71	56	22
	30A	21	27	33	49	56	44	4	41	60	70	56	27

Medical Applications

Insertion loss in dB (50 Ohm circuit)



Attenuation Code	Current Rating	Comm.Mode(L-G) in MHz						Diff. mode(L-L) in MHz					
		.15	.5	1	5	10	30	.15	.5	1	5	10	30
M0	1A	38	42	40	27	19	22	37	70	89	72	52	36
	2A	26	31	33	32	28	17	17	57	78	74	62	26
	3A	25	30	31	31	28	18	15	56	76	74	60	28
	5A	21	26	27	28	28	20	7	51	74	71	60	32
	6A	15	18	19	21	20	17	9	49	70	63	52	32
	10A	21	26	27	28	26	19	6	51	74	71	60	31
M1	1A	38	41	40	37	22	25	21	55	73	73	52	36
	2A	26	31	33	32	28	17	4	42	62	76	63	28
	3A	25	60	31	31	28	18	5	40	59	74	61	28
	5A	21	26	27	28	27	20	10	33	55	70	58	31
	6A	15	18	19	21	20	17	10	33	54	63	51	31
	10A	21	26	27	28	26	19	10	34	55	73	60	31
M2	1A	48	47	40	25	17	16	37	70	86	73	50	24
	2A	38	42	41	27	20	23	37	70	86	73	52	37
	3A	36	41	39	25	18	18	34	68	82	73	48	37
	5A	30	34	36	32	26	14	27	63	81	77	61	17
	6A	24	29	30	30	27	17	17	57	78	74	59	27
	10A	21	26	27	28	28	19	8	51	74	71	60	32
M3	1A	48	47	40	25	17	16	21	55	72	72	50	25
	2A	38	42	41	27	20	23	21	55	73	72	51	34
	3A	36	41	38	25	18	18	18	53	73	71	50	38
	5A	30	34	36	32	26	14	6	47	65	75	60	17
	6A	30	34	36	32	27	17	4	41	61	73	57	22
	10A	21	26	27	28	27	20	10	34	54	72	60	31
M4	1A	48	47	40	25	17	16	21	55	72	72	50	25
	2A	38	42	41	27	20	23	21	55	73	72	51	34
	3A	36	41	38	25	18	18	18	53	73	71	50	38
	5A	30	34	36	32	26	14	6	47	65	75	60	17
	6A	30	34	36	32	27	17	4	41	61	73	57	22
	10A	21	26	27	28	27	20	10	34	54	72	60	31
M5	1A	48	47	40	25	17	16	21	55	72	72	50	25
	2A	38	42	41	27	20	23	21	55	73	72	51	34
	3A	36	41	38	25	18	18	18	53	73	71	50	38
	5A	30	34	36	32	26	14	6	47	65	75	60	17
	6A	30	34	36	32	27	17	4	41	61	73	57	22
	10A	21	26	27	28	27	20	10	34	54	72	60	31
M6	1A	48	47	40	25	17	16	21	55	72	72	50	25
	2A	38	42	41	27	20	23	21	55	73	72	51	34
	3A	36	41	38	25	18	18	18	53	73	71	50	38
	5A	30	34	36	32	26	14	6	47	65	75	60	17
	6A	30	34	36	32	27	17	4	41	61	73	57	22
	10A	21	26	27	28	27	20	10	34	54	72	60	31
M7	1A	48	47	40	25	17	16	21	55	72	72	50	25
	2A	38	42	41	27	20	23	21	55	73	72	51	34
	3A	36	41	38	25	18	18	18	53	73	71	50	38
	5A	30	34	36	32	26	14	6	47	65	75	60	17
	6A	30	34	36	32	27	17	4	41	61	73	57	22
	10A	21	26	27	28	27	20	10	34	54	72	60	31