RP105 Series

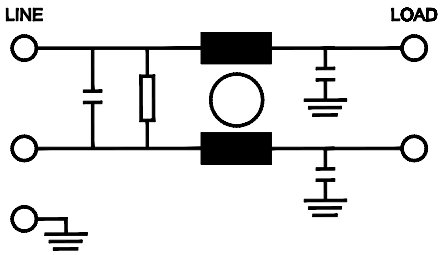
Compact Single Stage Power Line Filters

3 A to 20 A Chassis Mount Filter

Specifications

Operating Frequency	50/60 Hz
Usable Frequency	DC - 400 Hz
Max. Operating Voltage*	250 V +10%
Ambient Temperature	-25 to 40°C
Climatic Category	25/100/21
Hipot Rating (L-G)	2700 VDC
Terminals (-T)	QD: 0.25 Tabs
Safety Approvals	cURus, EN60939
Typ. Weight, lbs (kg)	0.3 (0.1)

*Available up to 300 VAC. Please contact us to verify specifications.



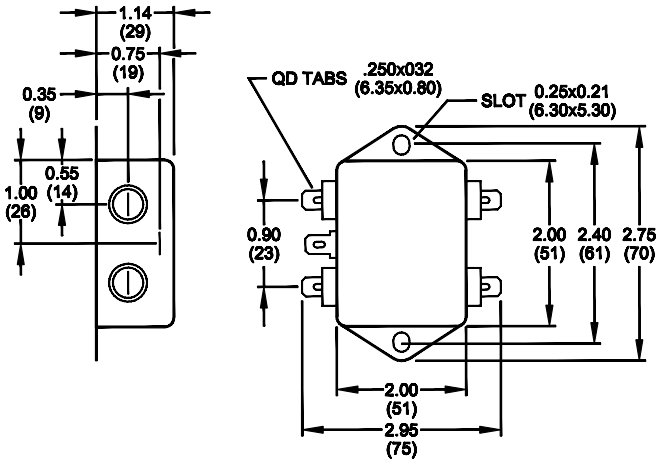
Part Number/Ordering

RP105	-X (Amps)	-Y (Ycap, nF)	-T
	3	0	QD
	6	0.47	
	10	1	
	16	2.2	
	20	4.7	
		10	

Note: Use any combination of -Y with any -X (Amps) rating
e.g. RP105-10-4.7-QD (10 Amps with 4.7 nF Ycap)

Mechanical Dimensions

TYPICAL TOLERANCE: +/-0.02" (0.50 mm)



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Typical Insertion Loss, dB (50/50 Ohm)

Freq (MHz)	0.15	0.5	1.0	10	30
3 Amp					
CM(dB)	38	50	50	50	54
DM(dB)	20	36	60	65	70
6 Amp					
CM(dB)	34	44	54	50	44
DM(dB)	20	32	46	65	70
10 Amp					
CM(dB)	26	36	44	50	44
DM(dB)	20	32	44	60	70
16 Amp					
CM(dB)	20	32	39	55	55
DM(dB)	20	32	40	58	70
20 Amp					
CM(dB)	14	22	30	50	58
DM(dB)	20	32	40	54	70
10 Amp					
CM(dB)	26	36	44	58	64
DM(dB)	20	32	44	60	70
16 Amp					
CM(dB)	20	32	39	55	55
DM(dB)	20	32	40	58	70
20 Amp					
CM(dB)	14	22	30	50	58
DM(dB)	20	32	40	54	70

Leakage Current

Y-cap, nF	mA, 120 V/60 Hz	mA, 250 V/60 Hz
0	0.0	0.0
0.47	0.04	0.08
1	0.09	0.18
2.2	0.2	0.4
4.7	0.4	0.8
10	0.9	1.8