

# 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)



Specifications are subject to change. Consult factory to verify specifications.

For more information on our filter products call us at: (800) 527-4362 or (714) 289-0055  
LCR, Radius Power, and Filter Concepts are now part of Astrodyne TDI

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#### Typical Insertion Loss, dB (50/50 Ohm)

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

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