

RP420 Series

3-Phase WYE Dual Stage Power Line Filter

**RP420
3PHASE WYE TO 300A**

ROHS COMPLIANT



SPECIFICATIONS

| | |
|------------------------|---|
| Operating Freq. | : 50/60Hz |
| Usable Freq. | : DC - 400Hz |
| Max. Operating Voltage | : 480V +10% |
| Ambient Temperature | : -25 to 50C |
| Climatic Category | : 25/100/21 |
| Hipot Rating (L-G) | : 3500VDC |
| Terminals (-T) | : S: 15/30/50A (M5) 80/100A (M6) 150/200A (M10) 300A (M12) |
| Safety Approvals | : UR, CSA, EN60939 |

LEAKAGE CURRENT

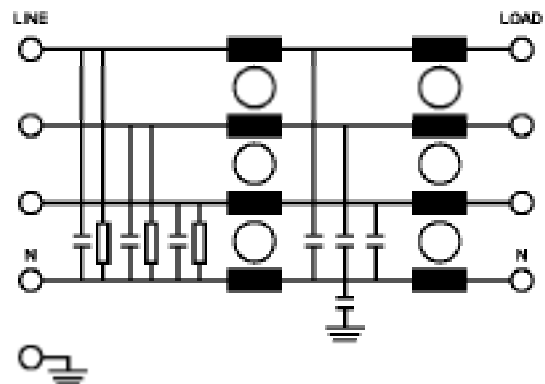
| Y-cap, nF | mA, 480V/60Hz |
|-----------|------------------|
| 0 | 0 |
| 10 | 1.8 |
| 100 | 18 |
| 1000 | 10 |
| 2000 | 20 |

PART NUMBER/ ORDERING

| RP420 | -X (Amps) | -Y (Ycap, nF) | -T | Weight LBS (KG) Typ. |
|-------|--------------|------------------|----|----------------------------|
| | 15 | 0 | S | 8.0 (3.6) |
| | 30 | 10 | | 8.0 (3.6) |
| | 50 | 100 | | 8.0 (3.6) |
| | 80 | 1000 | | 10.0 (4.5) |
| | 100 | 2000 | | 19.0 (8.6) |
| | 150 | | | 19.0 (8.6) |
| | 200 | | | 19.0 (8.6) |
| | 300 | | | 35.0 (15.9) |

Note: Use any combination of -Y with any -X (Amps) rating
e.g. RP420-30-10-S (30 Amps with 10nF Ycap)

SCHEMATIC



Reference purposes only.
Specifications are subject to change.
Consult factory to verify specifications.

www.radiuspower.com
www.astrodyne.com

Email: Emifiltercs@astrodyne.com

RP420

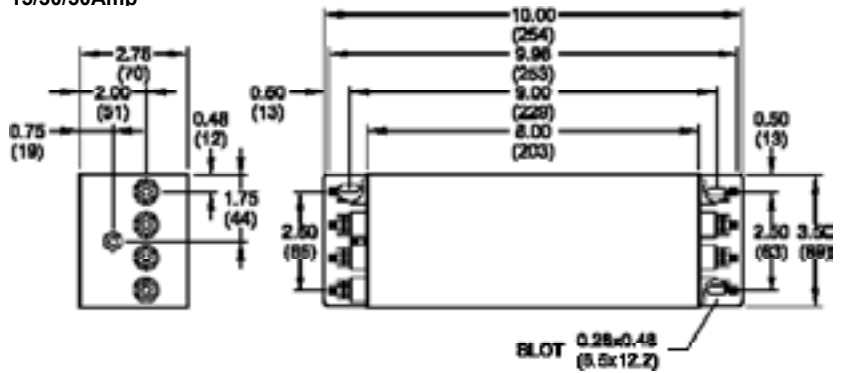
Typical Insertion Loss, dB (50/50ohm) Mechanical Dimensions

| 15/30 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 60 | 70 | 70 | 58 | 40 |
| DM (dB) | 60 | 70 | 70 | 70 | 70 |

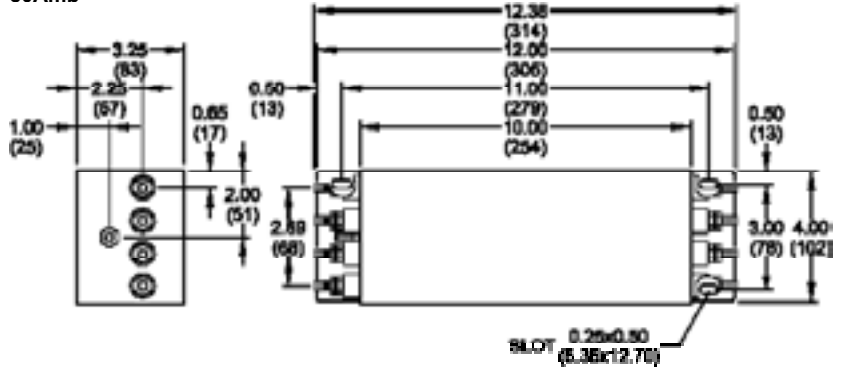
| 50 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 55 | 70 | 70 | 58 | 40 |
| DM (dB) | 55 | 65 | 70 | 70 | 60 |

| 80 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 50 | 60 | 60 | 55 | 40 |
| DM (dB) | 55 | 60 | 60 | 50 | 38 |

15/30/50Amp



80Amp



TYPICAL TOLERANCE: +/-0.02 (0.50)

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RP420

Typical Insertion Loss, dB (50/50ohm) Mechanical Dimensions

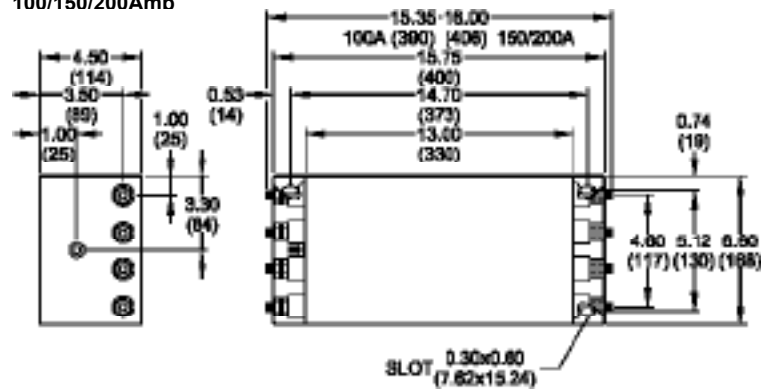
| 100 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 65 | 70 | 70 | 58 | 30 |
| DM (dB) | 52 | 65 | 65 | 60 | 30 |

| 150 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 60 | 65 | 65 | 55 | 30 |
| DM (dB) | 50 | 62 | 65 | 60 | 30 |

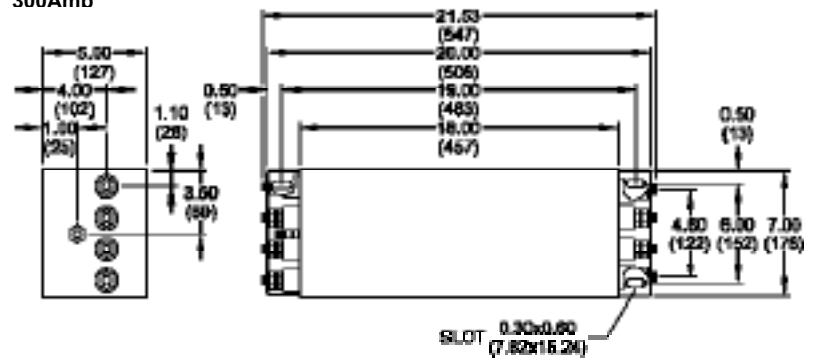
| 200 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 55 | 60 | 60 | 50 | 35 |
| DM (dB) | 50 | 60 | 60 | 60 | 30 |

| 300 Amp | | | | | |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1 | 10 | 30 |
| CM (dB) | 56 | 60 | 60 | 48 | 40 |
| DM (dB) | 50 | 55 | 55 | 50 | 30 |

100/150/200Amp



300Amp



TYPICAL TOLERANCE: +/-0.02 (0.50)

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