

Unregulated / Isolated

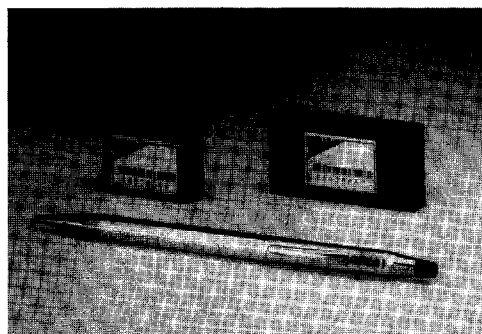
DC / DC CONVERTERS

IB Series

1.5 Watt (up to 4.5 Watt) Single/Dual Output

- 4000 VDC input/output isolation
- High reliability
- Continuous short circuit protection
- 24-pin dip compatibility
- -25°C to +85°C case temperature operating
- -55°C to +100°C storage temperature

Input Voltage	Output Voltage	Output Current	Ripple	Case	Model
5 VDC ($\pm 10\%$)	5 VDC	220 mA	≤ 100 mV P-P max	1 (Single) 2 (Dual)	IBS55
	-9 VDC	180 mA			IBS59
	12 VDC	100 mA			IBS512
	15 VDC	90 mA			IBS515
	24 VDC	50 mA			IBS524
	30 VDC	45 mA			IBS530
	± 5 VDC	200 mA			IBD55
	± 12 VDC	100 mA			IBD512
	± 15 VDC	90 mA			IBD515
	± 15 VDC	150 mA			IBD5150
	48 VDC	125 mA			* IBS548-125
				2	
12 VDC ($\pm 10\%$)	5 VDC	220 mA			IBS25
	12 VDC	100 mA			IBS212
	15 VDC	90 mA			IBS215
	24 VDC	100 mA			IBS224
	30 VDC	45 mA			IBS230
	± 5 VDC	200 mA			IBD25
	± 12 VDC	100 mA			IBD212
	± 15 VDC	90 mA			IBD215
	± 15 VDC	150 mA			IBD2150



Size: 1.25" x 0.8" x 0.4" (single)

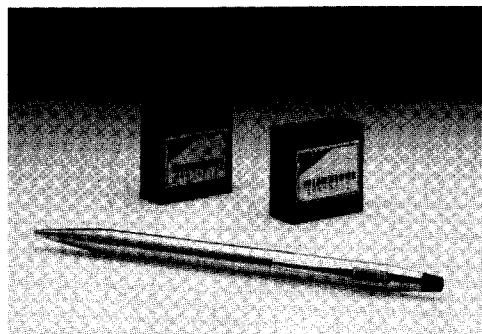
*500 VDC input/output isolation

DN Series

4 Watt (up to 5 Watt) Single/Dual Output

- Proportional unregulated outputs
- High efficiency
- Short circuit protection
- 300 VDC input/output isolation
- -25°C to +85°C case temperature operating
- -55°C to +100°C storage temperature

Input Voltage	Output Voltage	Output Current	Ripple	Case	Model
5 VDC ($\pm 15\%$)	5 VDC	180 mA	≤ 100 mV P-P max	9	DN5-5S180
	5 VDC	450 mA			DN5-5S450
	12 VDC	75 mA			DN5-12S75
	12 VDC	200 mA			DN5-12S200
	± 12 VDC	± 38 mA			DN5-12D38
	± 12 VDC	± 100 mA			DN5-12D100
	± 15 VDC	± 30 mA			DN5-15D30
	± 15 VDC	± 80 mA			DN5-15D80
12 VDC ($\pm 15\%$)	5 VDC	180 mA			DN12-5S180
	12 VDC	300 mA			DN12-12S300
	± 12 VDC	± 38 mA			DN12-12D38
	± 12 VDC	± 165 mA			DN12-12D165
	± 15 VDC	± 30 mA			DN12-15D30
	± 15 VDC	± 135 mA			DN12-15D135
24 VDC ($\pm 15\%$)	± 15 VDC	± 150 mA			DN4-15D150

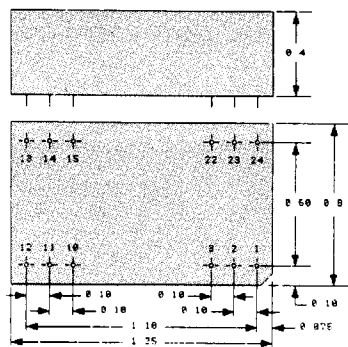


Size: 1.125" x 1.125" x .58"

For further Information:
Call 603-778-2300

CASE DIMENSIONS

CASE 1: B, RB & IBS SERIES



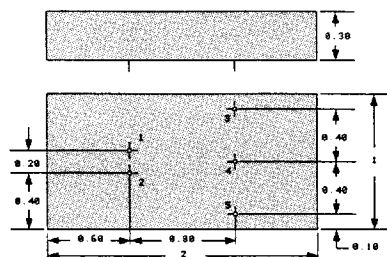
PIN DESIGNATION B & RB

5, 12, OR 15 VDC 1 & 24 + VDC IN 2 & 23 DO NOT CONNECT 3 & 22 - VDC OUT 10 & 15 + VDC OUT 11 & 14 - VDC OUT 12 & 13 - VDC IN	5, 12, OR 15 VDC 1 & 24 + VDC IN 2 & 23 - VDC OUT 3 & 22 DO NOT CONNECT 10 & 15 COMMON OUT 11 & 14 + VDC OUT 12 & 13 - VDC IN	24 OR 30 VDC 1 & 24 + VDC IN 2 & 23 - VDC OUT 3 & 22 DO NOT CONNECT 10 & 15 DO NOT CONNECT 11 & 14 + VDC OUT 12 & 13 - VDC IN
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IBS

5, 12, OR 15 VDC 1 & 2 + VDC IN 11 & 12 + VDC OUT 13 & 14 - VDC OUT 23 & 24 - VDC IN
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CASE 2: VLK, JR & IBD SERIES



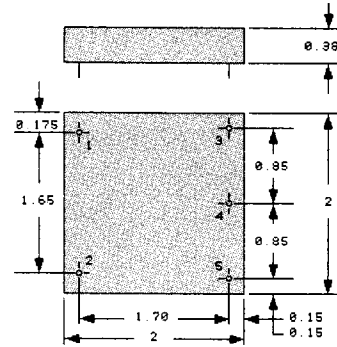
SINGLE

- 1) +IN
- 2) -IN
- 3) +COMMON
- 4) -OUT

DUAL

- 1) +IN
- 2) -IN
- 3) +OUT
- 4) COMMON
- 5) -OUT

CASE 3A: L, LW, MS & N SERIES



SINGLE

- 1) +IN
- 2) -IN
- 3) +OUT
- 4) N/C
- 5) -OUT

DUAL

- 1) +IN
- 2) -IN
- 3) +OUT
- 4) COMMON
- 5) -OUT

*On MS & N Series, case height is .4".

CASE 5: SI & SIW SERIES



SINGLE

- 1) -IN
- 2) +IN
- 3) REMOTE ON/OFF
- 4) -OUT
- 5) +OUT
- 6) N/C (+SENSE)
- 7) OUTPUT TRIM
- 8) N/C (+SENSE)

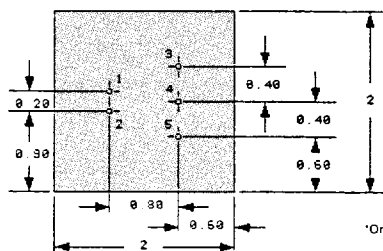
DUAL

- 1) -IN
- 2) +IN
- 3) REMOTE ON/OFF
- 4) N/C
- 5) N/C
- 6) -OUT
- 7) COMMON
- 8) +OUT

TRIPLE

- 1) -IN
- 2) +IN
- 3) REMOTE ON/OFF
- 4) N/C
- 5) +5 OUT
- 6) -OUT
- 7) COMMON
- 8) +OUT

CASE 3B (Center Pin Out)



SINGLE

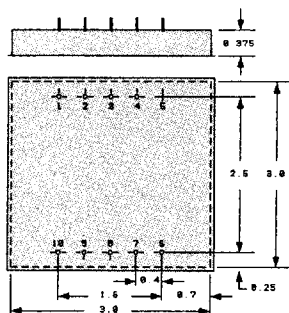
- 1) +IN
- 2) -IN
- 3) +OUT
- 4) N/C
- 5) -OUT

DUAL

- 1) +IN
- 2) -IN
- 3) +OUT
- 4) COMMON
- 5) -OUT

*On MS & N Series, case height is .4".

CASE 6: CA SERIES



SINGLE

1. REMOTE ON/OFF
2. N/C
3. + VDC IN
4. - VDC IN
5. NO PIN
6. N/C
7. N/C
8. OUTPUT COMMON
9. + VDC OUT
10. OUTPUT ADJUST

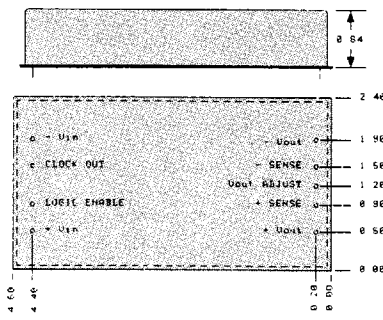
DUAL

1. REMOTE ON/OFF
2. N/C
3. + VDC IN
4. - VDC IN
5. NO PIN
6. - VDC OUT
7. OUTPUT COMMON
8. OUTPUT COMMON
9. + VDC OUT
10. PRIMARY OUTPUT ADJUST

TRIPLE

1. REMOTE ON/OFF
2. N/C
3. + VDC IN
4. - VDC IN
5. NO PIN
6. - 12, - 15 VDC OUT
7. +12, +15 VDC OUT
8. OUTPUT COMMON
9. +5 VDC OUT
10. PRIMARY OUTPUT ADJUST

CASE 7: VMC SERIES

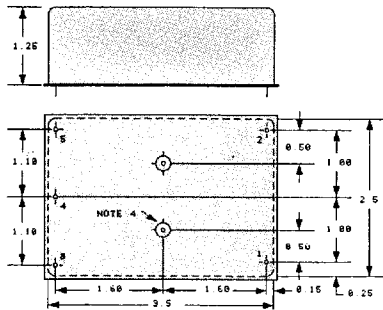


Note: Pin out descriptions are not marked on unit.

CASE DIMENSIONS

T-90-20

CASE 8A: SA & S SERIES



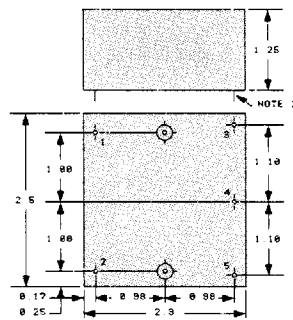
SA Series

- 1) + IN
- 2) - IN
- 3) + OUT
- 4) N/C
- 5) - OUT

S Series

- 1) + IN
- 2) - IN
- 3) + OUT
- 4) TRIM
- 5) - OUT

CASE 8B: S & T SERIES



SA Series

- 1) + IN
- 2) - IN
- 3) + OUT
- 4) TRIM
- 5) - OUT

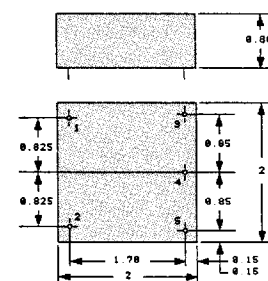
T Series (single)

- 1) AC IN
- 2) AC IN
- 3) - OUT
- 4) N/C
- 5) + OUT

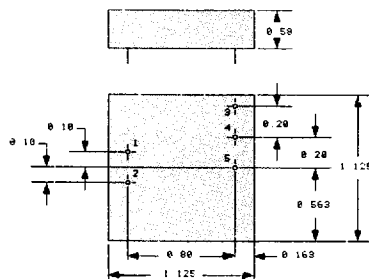
T Series (dual)

- 1) AC IN
- 2) AC IN
- 3) - OUT
- 4) COMMON
- 5) + OUT

CASE 8C: S & T SERIES



CASE 9: DN SERIES



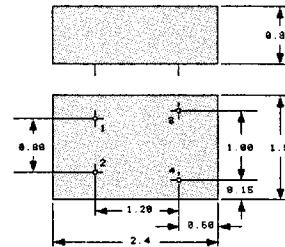
SINGLE

- 1) - IN
2) + IN
3) + OUT
4) - OUT
5) N/C

DUAL

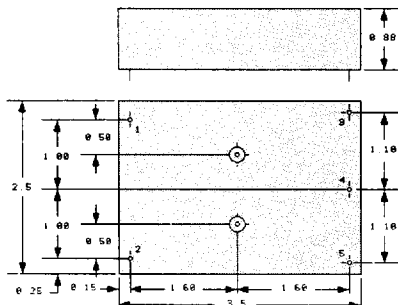
- 1) - IN
- 2) + IN
- 3) + OUT
- 4) COMMON
- 5) - OUT

CASE 10: H SERIES



- 1) + IN
- 2) - IN
- 3) - OUT
- 4) + OUT

CASE 11A: W SERIES



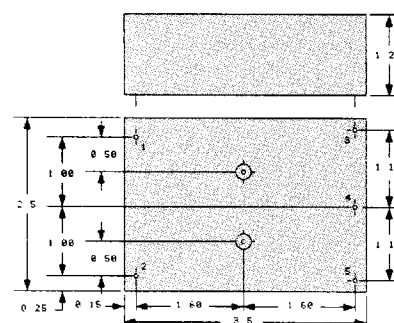
SINGLE

1. AC IN
2. AC IN
3. COMMON
4. N C
5. + OUT

DUAL

1. AC IN
2. AC IN
3. - OUT
4. COMMON
5. + OUT

CASE 11B: W & E SERIES



SINGLE

1. AC IN
2. AC IN
3. COMMON
4. N C
5. + OUT

DUAL

1. AC IN
2. AC IN
3. - OUT
4. COMMON
5. + OUT