



TRI-MAG, Inc.
your **POWER Specialists**

1601 N. Clancy, Visalia, CA 93291
(209) 651-2222 Fax (209) 651-0188
ITT Telex Number: 4994462
Cable Address: "TRIMAG"

972ZX SERIES

15 Watt, Low Profile

DC-DC CONVERTER

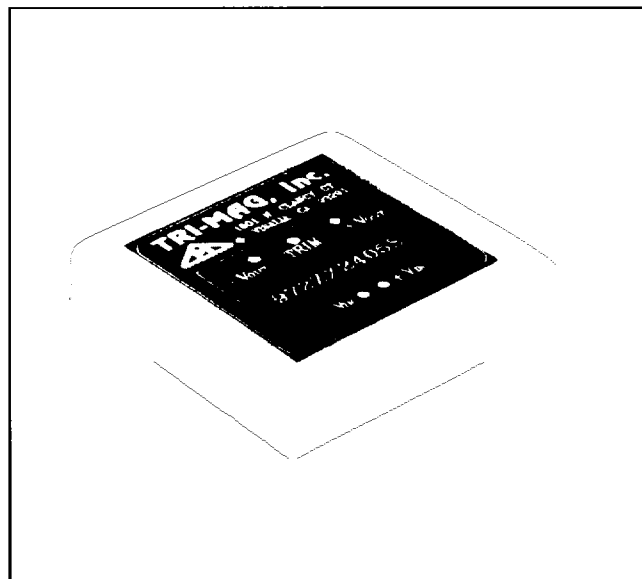
4:1 Wide Range Input

FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In And Triple Tested
- MTBF > 400,000 Hours

APPLICATIONS

- Telecommunications
- Industrial And Testing Equipment
- Battery-Powered Equipment
- Medical Equipment
- Computer And Peripheral Equipment
- Distributed Power Systems



ELECTRICAL SPECIFICATIONS

Input Voltage Range	4:1
Output Voltage Accuracy	Single & Dual $\pm 1\%$, Triple +V1 & -V2 $\pm 2\%$, +V3 $\pm 3\%$
Load Regulation	Single $\pm 0.5\%$, Dual & Triple $\pm 2\%$
Line Regulation (Triple Output / Single Output)	Single $\pm 0.5\%$, Dual & Triple $\pm 1\%$
Ripple & Noise	100mV p-p for 5V, 1% for other Voltages
Short Circuit Protection	Continuous
Overvoltage Protection	Trip point 6.8 or rated output +3V

GENERAL SPECIFICATIONS

Efficiency (at full load)	Single & Dual 85% typical, Triple 80% typical
Isolation Voltage	500 VDC
Operating Frequency	100KHz min.
Operating Temperature	-25° C to +70° C
Storage Temperature	-40° C to +100° C
Isolation Resistance	10 Ohms, min.
Reflected Ripple Current	20mA, typical
Weight	Single & Dual 2.4 Oz. (65 grams), Triple 2.8 Oz. (79 grams)
Case Material	Black coated copper with non-conductive metal base



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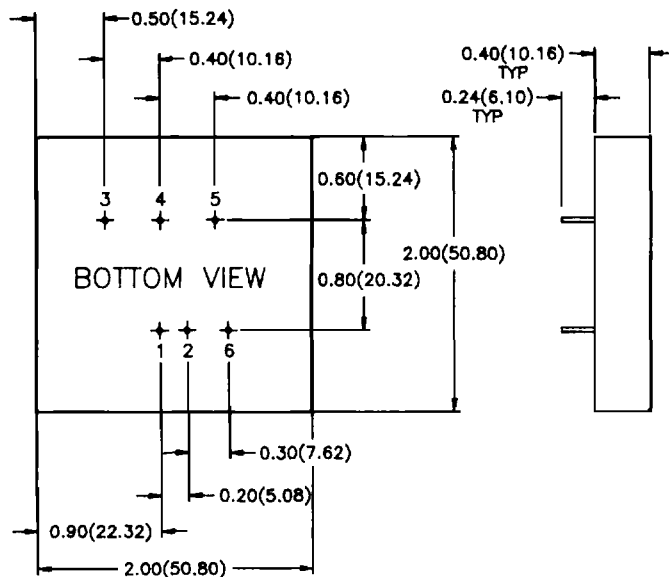
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972ZX SERIES SINGLE & DUAL OUTPUT SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)	Output Voltage (Vdc)	Output Current mA (max)
972ZX2405S	9-36 (24)	1560	5	3000
972ZX2412S		1540	12	1250
972ZX2415S		1525	15	1000
972ZX2405D		1560	±5	±1500
972ZX2412D		1540	±12	±625
972ZX2415D		1520	±15	±500
972ZX4805S	20-72 (48)	760	5	3000
972ZX4812S		750	12	1250
972ZX4815S		745	15	1000
972ZX4805D		760	±5	±1500
972ZX4812D		750	±12	±625
972ZX4815D		745	±15	±500

S: Single Output D: Dual Output

Specifications subject to change without notice.

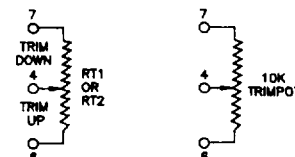


Pin Connections

Pin	Single	Dual
1	+ Input	+ Input
2	- Input	- Input
3	+ Output	+ Output
4	Trim	Common
5	- Output	- Output
6	Remote On/Off	

EXTERNAL OUTPUT TRIMMING

OUTPUT MAY OPTIONALLY BE EXTERNALLY TRIMMED (±10%) WITH A FIXED RESISTOR OR AN EXTERNAL TRIMPOT AS SHOWN





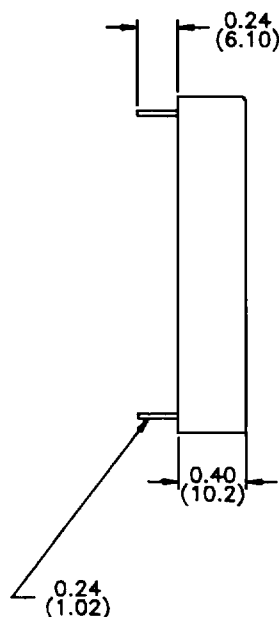
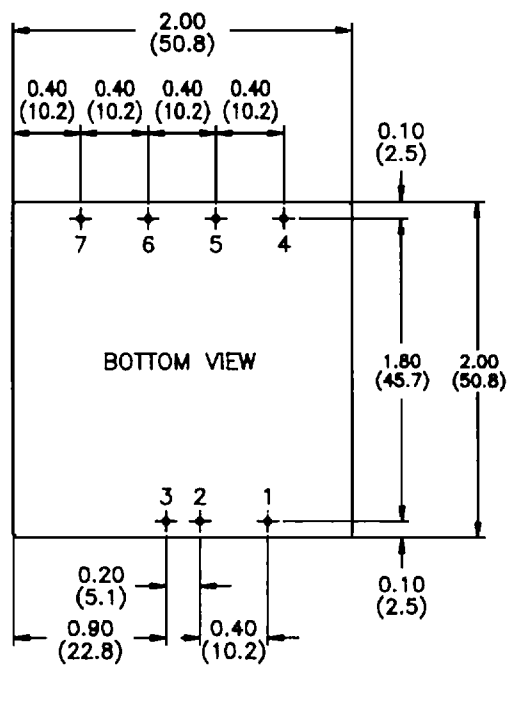
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972ZX SERIES TRIPLE OUTPUT SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)	Output Voltage (Vdc)	Output Current mA (max)
972ZX24T01	9-36 (24)	1576	+5	1500
			+12	310
			-12	310
972ZX24T02		1582	+5	1500
			+15	250
			-15	250
972ZX24T03		1447	+5	1500
			+12	310
			-5	500
972ZX48T01	20-72 (48)	775	+5	1500
			+12	310
			-12	310
972ZX48T02		781	+5	1500
			+15	250
			-15	250
972ZX48T03		715	+5	1500
			+12	310
			-5	500

Specifications subject to change without notice.



Pin Connections

Pin	Function
1	Remote On/Off
2	- Input
3	+ Input
4	- Output
5	Common
6	+5V Output
7	+ Output