



DC 700 SERIES

15-75 WATT

DC-DC CONVERTERS

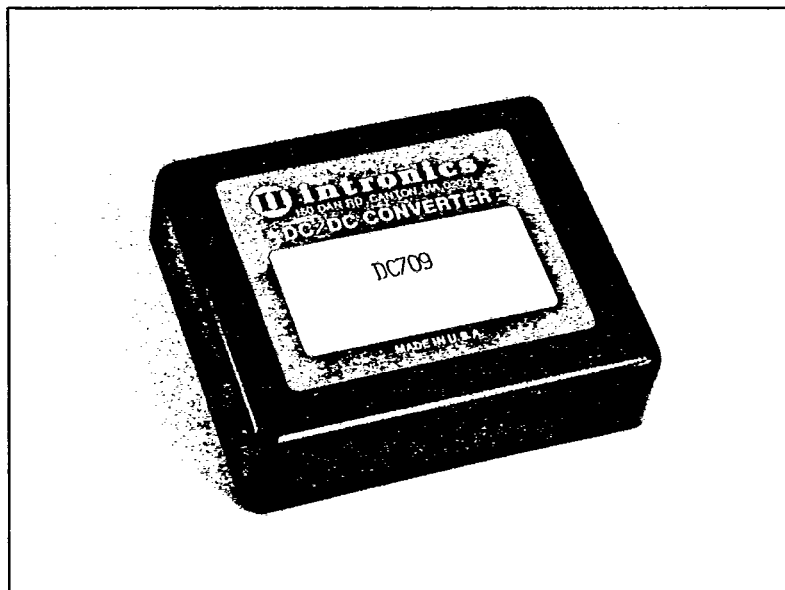
T-57-11

FEATURES

- Up to 12 watts/cubic inch
- Efficiency to 90%
- Ultra Wide Input Voltage Range
- Thermal Overload Protection
- Six-Sided Shielding,
Low Thermal Gradient
Copper Case
- Reverse Polarity Protection

APPLICATIONS

- Telecommunications
- Transportation
- Battery Operated Equipment
- Process Control Equipment

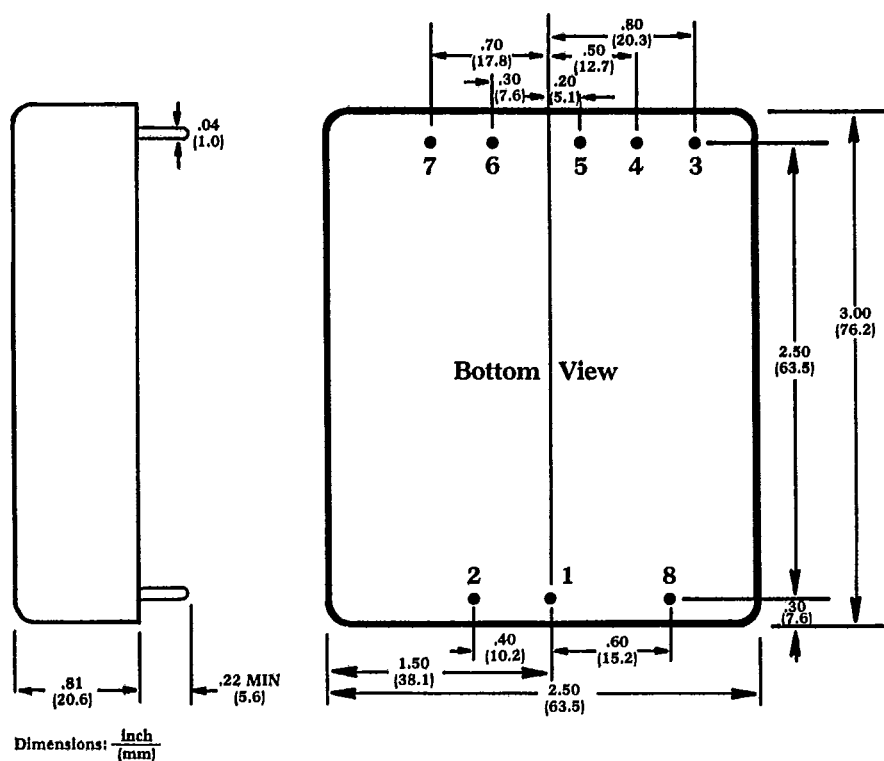


Model	Input Range (VDC)	Output Voltages (VDC)	Output Current (AMPS)	Eff. @ F.L. (TYP)	GENERAL SPECIFICATIONS	
DC702	8-40 (12V nom)	5	3	78%	Input Filter	Pi
DC703	8-40 (12V nom)	5	5	76%	Voltage Accuracy	± 1%
DC705	15-40 (24V nom)	12	3	88%	Voltage Adjustments	± 10%
DC706	15-40 (24V nom)	12	5	86%	Ripple	<1%
DC707	18-40 (24V nom)	15	3	90%	Noise (<20 MHz)	<2%
DC708	18-40 (24V nom)	15	5	88%	Temperature Coefficient	.02%/°C
CONTACT OUR SALES APPLICATION DEPARTMENT WITH YOUR CUSTOM DESIGNS AND SPECIFICATIONS. AT INTRONICS WE ARE PREPARED TO RESPOND PROMPTLY TO YOUR NEEDS.					Regulation Line	± 0.5% Main LL-HL
					Load	± 0.5% NL-FL
					Isolation	None. Pins 2 & 7 Internally Connected
					Switching Frequency	40 KHz Typical Fixed
					Efficiency	See Table
					FAULT PROTECTION	
					Reverse Polarity Protection	Yes (External fuse required)
					Overvoltage Main	Yes
					Short Circuit	Indefinite, Auto Recovery
					ENVIRONMENTAL	
					Thermal Trip Point	110°C Case Temperature
					Operating Temperature	-25°C to 70°C
						Refer to derating curve
					Storage Temperature	-40°C to 105°C

NOTES:

1. Remote sense and remote control are standard on Models DC703, DC706 and DC708.
At input voltages below nominal, current limit is 4 Amps minimum for these models.
2. Remote Control:
CMOS 0± TTL open collector
ON - 4.2 VDC or open circuit
OFF - 3.5 VDC or lower (4ma sink)

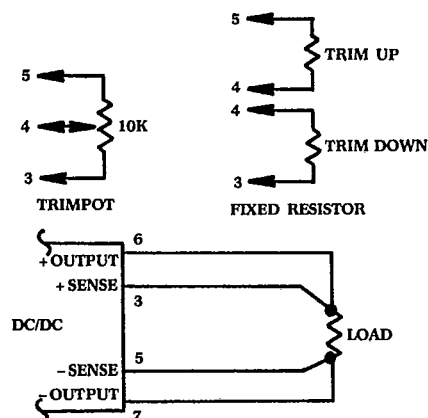
MECHANICAL OUTLINES AND CONNECTIONS



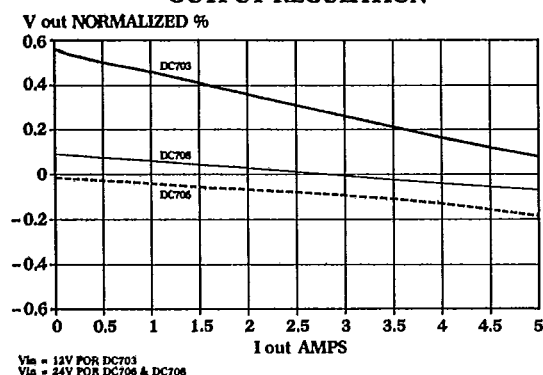
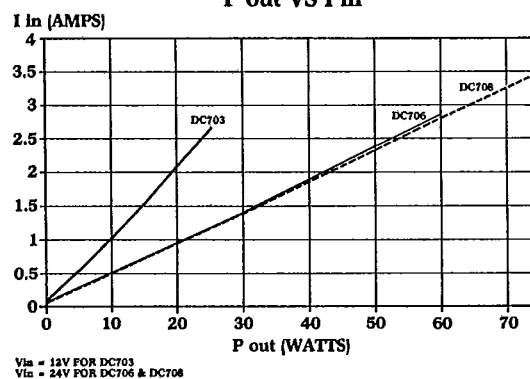
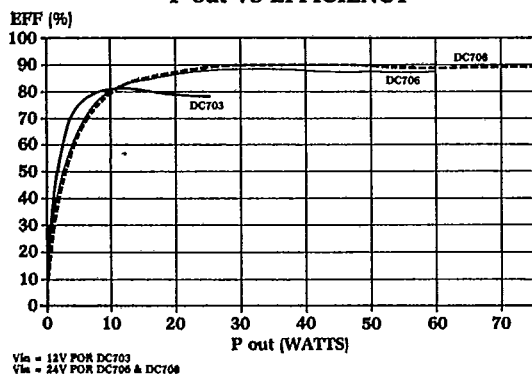
DC700 Series

PIN	FUNCTION
1	+ INPUT
2	- INPUT
3	+ SENSE
4	TRIM
5	- SENSE
6	+ OUTPUT
7	- OUTPUT
8	ON/OFF

CONNECTIONS FOR OUTPUT TRIM



PERFORMANCE CURVES

DC700 SERIES
OUTPUT REGULATIONDC700 SERIES
P out VS I inDC700 SERIES
P out VS EFFICIENCYDC700 SERIES
POWER DERATING CURVE