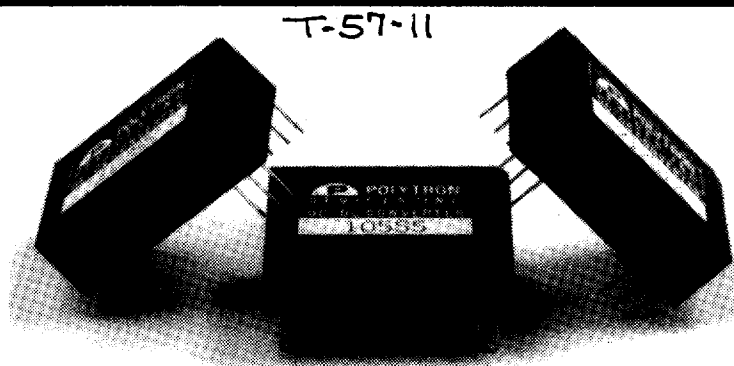


REGULATED DC/DC CONVERTERS

24-PIN DIP COMPATIBLE PACKAGE

FEATURES:

- High switching frequency: 1MHz
- Input polarity reversal protection
- High performance π input filter
- Single and dual outputs
- Highly regulated isolated outputs
- Short circuit protection and thermal cutoff
- 100% burn-in
- No external components



**FROM
STOCK**

SELECTION GUIDE 1/2W to 3W DC/DC CONVERTERS

	INPUT VOLTAGE VDC	INPUT CURRENT		INPUT REFLECTED RIPPLE (mAP-P)	OUTPUT VOLTAGE VDC	OUTPUT CURRENT mA	EFFICIENCY @ FULL LOAD %(MIN.)	CASE ¹ STYLE	MODEL NUMBER	PRICE 1-9 QTY.
		NO LOAD mA	FULL LOAD mA							
SINGLE VOLTAGE	5	120	250	10	5	100	40	M	105S5	32.00
		120	500	10	5	200	40	M	205S5	35.00
		120	600	10	12	100	40	M	212S5	35.00
		150	690	10	15	100	42	M	215S5	35.00
	12	50	200	5	12	100	50	M	212S12	35.00
		45	220	5	15	100	52	M	215S12	35.00
		35	310	10	5	400	52	M	205S12	35.00
	18	40	140	5	12	100	50	M	212S18	35.00
		40	140	5	15	100	52	M	215S18	35.00
		35	220	10	5	400	52	M	205S18	35.00
	24	35	100	5	12	100	50	M	212S24	35.00
		35	125	5	15	100	50	M	215S24	35.00
		35	157	10	5	400	52	M	205S24	35.00
	28	35	83	5	12	100	52	M	212S28	35.00
		35	102	5	15	100	52	M	215S28	39.00
		35	135	8	5	400	52	M	205S28	39.00
	48	32	48	5	12	100	52	M	212S48	39.00
		32	60	5	15	100	52	M	215S48	39.00
		32	80	10	5	400	52	M	205S48	39.00
DUAL VOLTAGE	5	140	980	20	±12	±100	50	M or MA	412D5	42.00
		160	825	20	±15	±75	50	M or MA	415D5	42.00
	12	50	360	10	±12	±100	55	M or MA	412D12	42.00
		50	400	10	±15	±100	55	M or MA	415D12	46.00
	18	40	250	8	±12	±100	53	M or MA	412D18	42.00
		40	280	8	±15	±100	59	M or MA	415D18	46.00
	24	35	180	5	±12	±100	55	M or MA	412D24	42.00
		35	210	5	±15	±100	59	M or MA	415D24	46.00
	28	35	145	5	±12	±100	58	M or MA	412D28	42.00
		35	170	5	±15	±100	60	M or MA	415D28	46.00
	48	32	88	5	±12	±100	56	M or MA	412D48	42.00
		32	100	5	±15	±100	60	M or MA	415D48	46.00

NOTE: ¹To order units with case style MA use suffix MA after model number.



POLYTRON DEVICES, INC.
P.O. BOX 398, PATERSON, N.J. 07544

FAX (201) 345-1264
PHONE (201) 345-5885

24-PIN DIP DC/DC CONVERTERS (Continued)

T-57-11

ALL DIMENSIONS
IN INCHES (MM)

SPECIFICATIONS:

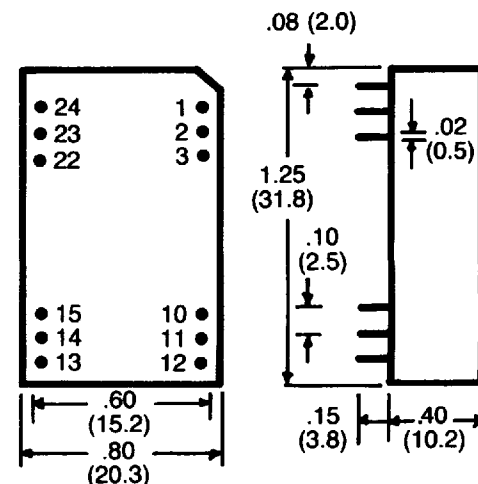
Typical @ 25°C Under Full Load and Nominal Input Voltage
Unless Otherwise Specified

Input Voltage Range	See Table Below
Voltage Accuracy	±5%
Voltage Balance (Dual Output)	±3%
Input Filter	Pi Network
Ripple and Noise, 20 MHz BW	15 mV P-P
Short Circuit Protection	Automatic Restart
Temperature Coefficient	±0.01%/°C
Warm-Up Drift (30 Min.)	±0.2%
Line Regulation	±0.3%
Load Regulation	±0.3%
Isolation Voltage	Case M; 500VDC, Case MA; 1000VDC
Isolation Capacitance	80pF
Isolation Resistance	10 ⁹ Ohms
Switching Frequency	Up to 1 MHz
Operating Temperature ²	−30°C to +75°C
Storage Temperature	−40°C to +125°C
Derating	None
Cooling ³	Free Air Convection
Weight	0.5oz.
Case Material	Phenolic

NOTES: ¹To order units with case style MA use suffix MA after model number.

²A ground plane under the converter is recommended for heat sinking and EMI reduction.

³Case ambient thermal resistance 15°C/Watt at normal line and full load conditions.



CASE M

PIN CONNECTIONS		
PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+V INPUT	+V INPUT
2	N.C.	−V OUTPUT
3	N.C.	COMMON
10	−V OUTPUT	COMMON
11	+V OUTPUT	+V OUTPUT
12	−V INPUT	−V INPUT
13	−V INPUT	−V INPUT
14	+V OUTPUT	+V OUTPUT
15	−V OUTPUT	COMMON
22	N.C.	COMMON
23	N.C.	−V OUTPUT
24	+V INPUT	+V INPUT

CASE MA¹

PIN	DUAL OUTPUT
1, 2, 3,	+V INPUT
22, 23, 24,	−V INPUT
15	+V OUTPUT
13	−V OUTPUT
10, 11	±V COMMON
12, 14	NO CONNECTION

INPUT VOLTAGE RANGE	
NOMINAL	FULL LOAD RANGE
5V	4.6V - 5.5V
12V	10.8V - 13.2V
18V	16.2V - 19.8V
24V	21.6V - 26.4V
28V	25.4V - 30.8V
48V	43.5V - 52.5V



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