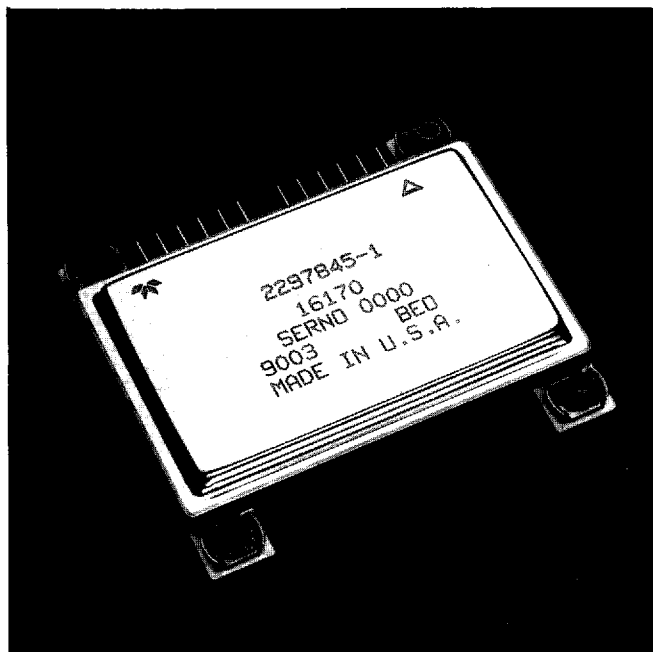




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# TELEDYNE MICROELECTRONICS



## DC/DC Converter P/N 2297845

### DESCRIPTION

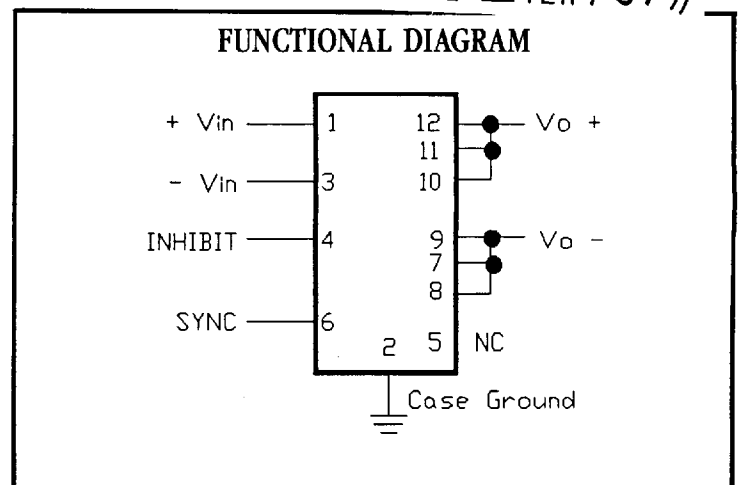
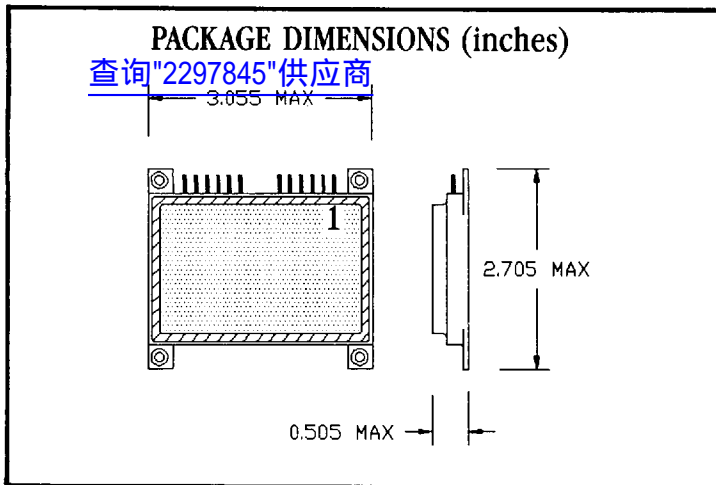
Designed for rugged environments, this power supply can deliver 75 watts of power from a MIL-STD-704D 28 Vdc input.

This pulse width modulated power supply features low output voltage ripple, radiation resistant circuit design, a high efficiency of 80% , ON/OFF inhibit control and optional external synchronization for system use. Together with the use of an external differential filter, the power supply can meet the EMI requirements of MIL-STD-461.

Modular design, certification to MIL-H-38534 and screening to MIL-STD-887 Method 5008 make this 12-pin flat pack hybrid an excellent choice for Military, Avionic (Class "H") and Space (Class "K") applications.

### FEATURES

- Single output up to 75 watts
- Available output voltage from 3.0 V to 50 V
- 80% typical efficiency
- Input output isolation
- Indefinite short circuit protection
- Common mode input filter included
- Certification to MIL-H-38534
- Screening to MIL-STD-883
- -55 °C to +125 °C operation
- Optional screens
- Inhibit control
- External synchronization feature
- Radiation tolerant design
- Hermetically sealed



ELECTRICAL CHARACTERISTICS		P/N 2297845			
ITEM #	PARAMETER	MIN	NOM	MAX	UNITS
1	Steady State Input Voltage Normal Optional	16	—	36	Vdc
		11	—	36	Vdc
2	Transient Input Voltage (per MIL-STD-704D)	0	—	50	Vdc
3	Output Voltage Tolerance (Line & Load Regulation, Temperature) 3 to 50 Vdc	—	±0.5	±1.5	%
4	Output Current (Limited to a maximum of 75 watts) $I_o$	0	—	75 $V_o$ max	Adc
5	Input Current Ripple	—	10	50	mA p-p
6	Output Ripple (% of $V_o$ )	—	—	1	% p-p
7	Efficiency (Full Load)	75	80	—	% min
8	Start-up Time	—	20	40	mS
9	Start-up Overshoot	—	—	5	%
10	Inhibit Pin Voltage	—	—	0.5	Vdc
11	Inhibit Pin Current	—	—	2	mA
12	Turn-off Time (Unloaded)	—	—	100	mS
13	External Sync Input Frequency $V_{OL}$ $V_{OH}$ Pulse Width	200	—	500	KHz
		0	—	0.5	Vpk
		3.5	—	5.0	Vpk
		0.8	—	1.2	uS
14	Isolation Input to Case 100 Vdc Output to Case 100 Vdc Input to Output 100 Vdc	—	—	10	MO
		—	—	10	MO
		—	—	10	MO
15	Operating Temperature Range Option 1 TC Option 2 TC Option 3 TC	-40	—	+85	°C
		-55	—	+100	°C
		-55	—	+125	°C
16	Storage Temperature Range	-55	—	+150	°C

Wherever possible, the information supplied is supported by performance and test data. However, no responsibility is assumed by Teledyne Microelectronics for its use. Teledyne reserves the right to make changes to this device or device specifications.

Contact your local authorized sales representative or the factory direct for any further information on the product.