

DMS Accessories

Subminiature, 1 Watt Isolated DC/DC Converters

ABSOLUTE MAXIMUM RATING ②

Input Voltage:

5 VDC Models	9 VDC
12 VDC Models	18 VDC
24 VDC Models	30 VDC

Output Short Circuit Duration	Momentary
Internal Power Dissipation	0.45W

ELECTRICAL SPECIFICATIONS

Input Specifications:

Input Voltage Range	±10%
Input Filter	Internal Capacitor

Output Specifications:

Output Voltage Accuracy	±3%, Max.
Ripple & Noise (20 MHz BW) ①	50 mV Pk-Pk
Line Regulation LL-HL	See Ordering Information
Load Regulation 20% L-FL	See Ordering Information
Minimum Load	10% of Full Load
Temperature Coefficient @ FL	±0.02%/°C
Short Circuit Protection	Momentary

General Specifications:

Efficiency	See Ordering Information
Isolation Voltage (1 min)	1000 VDC
Isolation Capacitance	60 pF
Isolation Resistance	109 W
Switching Frequency	100 kHz

Environmental Specifications:

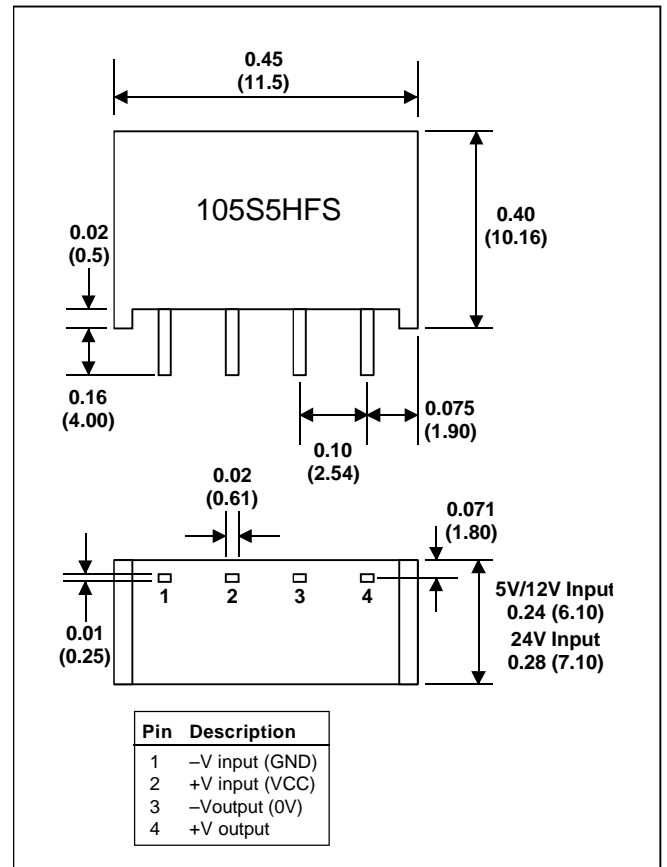
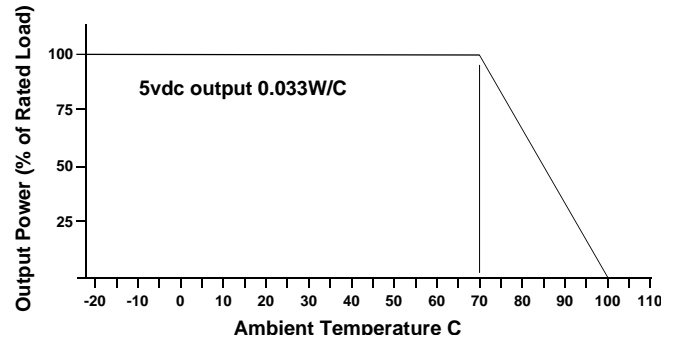
Operating Temperature Range	-25°C to +75°C
Storage Temperature Range	-40°C to +125°C
Derating	See Derating Curve
Humidity	Up to 95%, (non-condensing)
Cooling	Free-air Convection

Physical Characteristics:

Size: 5V/12V Input	0.45 x 0.24 x 0.40 inches (11.5 x 6.1 x 10.2 mm)
24V Input	0.45 x 0.28 x 0.40 (11.5 x 7.1 x 10.2)
Weight: 5V/12V Input	0.04 Oz (1.3g)
24V Input	0.05 Oz (1.7g)
Case Material	Non-Conductive Black Plastic

Specification Notes:

- Ripple and Noise is specified at 100 mV Pk-Pk.
- Absolute Maximum Ratings are specification limits that, if exceeded, could permanently damage the unit. These are not continuous operating ratings. Specifications typical @ +25°C with nominal input voltage and under full output load conditions, unless otherwise noted. Specifications subject to change without notice.



ORDERING INFORMATION

DATEL Part #	Marking	Input			Output		Regulation		Efficiency @FL (%)
		Voltage (VDC)	Current (mA)		Voltage (VDC)	Current (mA)	Line%/% V _{IN} Max	Load %Max	
39-0276550	105S5HFS		5	27					290
39-0276552	105S12HFS	12	13	117	5.0	200	1.3	9	71
39-0276551	105S24HFS	24	8	60	5.0	200	1.3	8	70

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