



MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

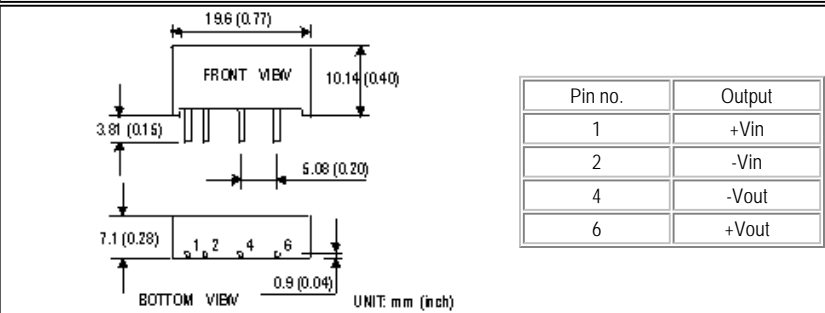
SPR01L SERIES

- .REGULATED DC OUTPUT
- .1000VDC I/O ISOLATION
- .INPUT FILTER:CAPACITOR TYPE
- .INTERNAL SMD TECHNOLOGY
- .NO EXTERNAL COMPONENTS REQUIRED
- .HIGH RELIABILITY / LOW COST
- .100% BURN-IN TEST
- .MTBF:800,000 HOURS



ORDER NO.	SPR01L-05	SPR01L-09	SPR01L-12	SPR01L-15
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	9V	12V	15V
OUTPUT VOLTAGE ACCURACY	±2%			
OUTPUT RATED CURRENT	200mA	100mA	84mA	67mA
OUTPUT CURRENT RANGE	0-200mA	0-100mA	0-84mA	0-67mA
RIPPLE & NOISE	100mVp-p (max.)			
LINE REGULATION	± 1%	± 1%	± 1%	± 1%
LOAD REGULATION	± 1%	± 1%	± 1%	± 1%
DC OUTPUT POWER	1W	0.9W	1W	1W
EFFICIENCY	57%	58%	61%	62%
SWITCHING FREQUENCY	100KHz min.			
INPUT VOLTAGE RANGE	5V± 10% (4.5-5.5VDC)			
INPUT CURRENT	350mA max.			
SHORT CIRCUIT PROTECTION	MOMENTARY			
OVER VOLTAGE PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)			
ISOLATION VOLTAGE	I/P-O/P:1KVDC MIN.			
ISOLATION RESISTANCE	I/P-O/P:500VDC / 100M Ohms MIN.			
ISOLATION CAPACITANCE	80pF max.			
WORKING TEMP., HUMIDITY	-15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C			
STORAGE TEMP., HUMIDITY	-25°C~+85°C, 10%~95% RH			
DIMENSION	0.77"*0.4"*0.28"			
WEIGHT	2.1g			
CASE METERIAL	NON-CONDUCTIVE PLASTIC			

MECHANISM AND PIN CONFIGURATION



NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.
 2.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
 3.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
 4.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD.

2003-01-07



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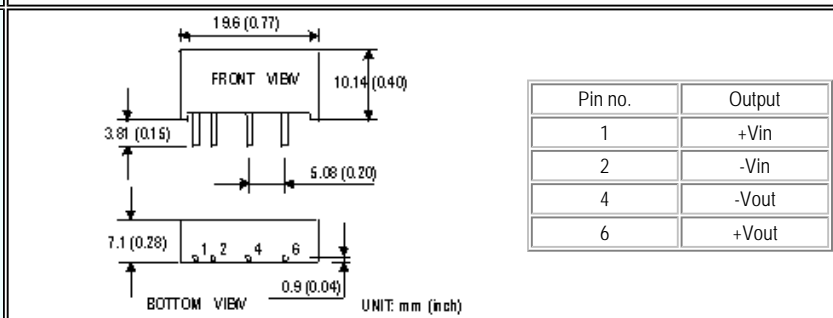
SPR01M SERIES

- .REGULATED DC OUTPUT
- .1000VDC I/O ISOLATION
- .INPUT FILTER:CAPACITOR TYPE
- .INTERNAL SMD TECHNOLOGY
- .NO EXTERNAL COMPONENTS REQUIRED
- .HIGH RELIABILITY / LOW COST
- .100% BURN-IN TEST
- .MTBF:800,000 HOURS



ORDER NO.	SPR01M-05	SPR01M-09	SPR01M-12	SPR01M-15
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	9V	12V	15V
OUTPUT VOLTAGE ACCURACY	±2%			
OUTPUT RATED CURRENT	200mA	100mA	84mA	67mA
OUTPUT CURRENT RANGE	0-200mA	0-100mA	0-84mA	0-67mA
RIPPLE & NOISE	100mVp-p (max.)			
LINE REGULATION	±1%	±1%	±1%	±1%
LOAD REGULATION	±1%	±1%	±1%	±1%
DC OUTPUT POWER	1W	0.9W	1W	1W
EFFICIENCY	59%	60%	62%	63%
SWITCHING FREQUENCY	100KHz min.			
INPUT VOLTAGE RANGE	12V± 10% (10.8-13.2VDC)			
INPUT CURRENT	141mA max.			
SHORT CIRCUIT PROTECTION	MOMENTARY			
OVER VOLTAGE PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)			
ISOLATION VOLTAGE	I/P-O/P:1KVDC MIN.			
ISOLATION RESISTANCE	I/P-O/P:500VDC / 100M Ohms MIN.			
ISOLATION CAPACITANCE	80pF max.			
WORKING TEMP., HUMIDITY	-15°C~+60°C, 20%-90% RH (NO DERATING); 80% LOAD @ 71°C			
STORAGE TEMP., HUMIDITY	-25°C~+85°C, 10%-95% RH			
DIMENSION	0.77"×0.4"×0.28"			
WEIGHT	2.1g			
CASE METERIAL	NON-CONDUCTIVE PLASTIC			

MECHANISM AND PIN CONFIGURATION



NOTE : 1. ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
 2. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
 3. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
 4. LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD.



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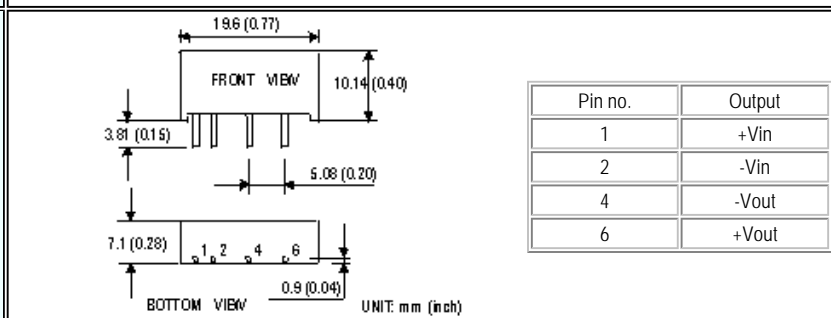
SPR01N SERIES

- .REGULATED DC OUTPUT
- .1000VDC I/O ISOLATION
- .INPUT FILTER:CAPACITOR TYPE
- .INTERNAL SMD TECHNOLOGY
- .NO EXTERNAL COMPONENTS REQUIRED
- .HIGH RELIABILITY / LOW COST
- .100% BURN-IN TEST
- .MTBF:800,000 HOURS



ORDER NO.	SPR01N-05	SPR01N-09	SPR01N-12	SPR01N-15
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	9V	12V	15V
OUTPUT VOLTAGE ACCURACY	±2%			
OUTPUT RATED CURRENT	200mA	100mA	84mA	67mA
OUTPUT CURRENT RANGE	0-200mA	0-100mA	0-84mA	0-67mA
RIPPLE & NOISE	100mVp-p (max.)			
LINE REGULATION	± 1%	± 1%	± 1%	± 1%
LOAD REGULATION	± 1%	± 1%	± 1%	± 1%
DC OUTPUT POWER	1W	0.9W	1W	1W
EFFICIENCY	62%	60%	63%	63%
SWITCHING FREQUENCY	100KHz min.			
INPUT VOLTAGE RANGE	24V± 10% (21.6~26.4VDC)			
INPUT CURRENT	67mA max.			
SHORT CIRCUIT PROTECTION	MOMENTARY			
OVER VOLTAGE PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)			
ISOLATION VOLTAGE	I/P-O/P:1KVDC MIN.			
ISOLATION RESISTANCE	I/P-O/P:500VDC / 100M Ohms MIN.			
ISOLATION CAPACITANCE	80pF max.			
WORKING TEMP., HUMIDITY	-15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C			
STORAGE TEMP., HUMIDITY	-25°C~+85°C, 10%~95% RH			
DIMENSION	0.77"*0.4"*0.28"			
WEIGHT	2.1g			
CASE METERIAL	NON-CONDUCTIVE PLASTIC			

MECHANISM AND PIN CONFIGURATION



NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.
 2.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
 3.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
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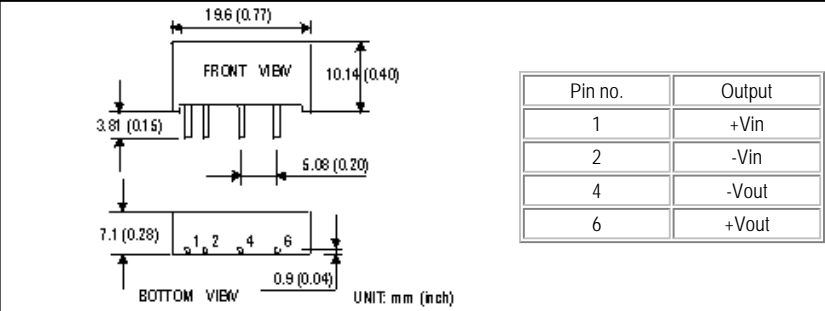
SPR010 SERIES

- .REGULATED DC OUTPUT
- .HIGH RELIABILITY / LOW COST
- .1000VDC I/O ISOLATION
- .100% BURN-IN TEST
- .INPUT FILTER:CAPACITOR TYPE
- .MTBF:800,000 HOURS
- .INTERNAL SMD TECHNOLOGY
- .NO EXTERNAL COMPONENTS REQUIRED



ORDER NO.	SPR010-05	SPR010-09	SPR010-12	SPR010-15
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	9V	12V	15V
OUTPUT VOLTAGE ACCURACY	±2%			
OUTPUT RATED CURRENT	200mA	100mA	84mA	67mA
OUTPUT CURRENT RANGE	0-200mA	0-100mA	0-84mA	0-67mA
RIPPLE & NOISE	100mVp-p (max.)			
LINE REGULATION	± 1%	± 1%	± 1%	± 1%
LOAD REGULATION	± 1%	± 1%	± 1%	± 1%
DC OUTPUT POWER	1W	0.9W	1W	1W
EFFICIENCY	62%	60%	63%	63%
SWITCHING FREQUENCY	100KHz min.			
INPUT VOLTAGE RANGE	48V± 10% (43.2-52.8VDC)			
INPUT CURRENT	35mA max.			
SHORT CIRCUIT PROTECTION	MOMENTARY			
OVER VOLTAGE PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)			
ISOLATION VOLTAGE	I/P-O/P:1KVDC MIN.			
ISOLATION RESISTANCE	I/P-O/P:500VDC / 100M Ohms MIN.			
ISOLATION CAPACITANCE	80pF max.			
WORKING TEMP., HUMIDITY	-15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C			
STORAGE TEMP., HUMIDITY	-25°C~+85°C, 10%~95% RH			
DIMENSION	0.77"*0.4"*0.28"			
WEIGHT	2.1g			
CASE METERIAL	NON-CONDUCTIVE PLASTIC			

MECHANISM AND PIN CONFIGURATION



NOTE :

1. ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
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