



- Features :
 - 3000VDC I/O isolation
 - Internal SMD technology
 - Built-in EMI filter
 - Protection: Short circuit
 - Cooling by free air convection
 - Non-conductive plastic case
 - Single in line package
 - 100% full load burn-in test
 - Low cost / High reliability
 - 2 years warranty

■ GTIN CODE

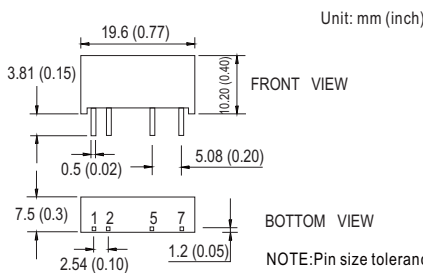
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



SPECIFICATION

| ORDER NO. | SPU03L-05 | SPU03M-05 | SPU03N-05 | SPU03L-12 | SPU03M-12 | SPU03N-12 | SPU03L-15 | SPU03M-15 | SPU03N-15 | | |
|--------------|------------------------------|--|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|-------|
| OUTPUT | DC OUTPUT VOLTAGE | 5V | | | 12V | | | 15V | | | |
| | CURRENT RANGE | 60 ~ 600mA | | | 25 ~ 250mA | | | 20 ~ 200mA | | | |
| | EFFICIENCY (Typ.) | 82% | 83% | 83% | 85% | 86% | 86% | 86% | 86% | 88% | |
| | RATED POWER | 3W | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 50mVp-p | | | | | | | | | |
| | LINE REGULATION Note.3 | ±1.2% for 1% input variation | | | | | | | | | |
| | LOAD REGULATION Note.4 | ±8.0% | | | | | | | | | |
| | VOLTAGE ACCURACY | ±2.0% | | | | | | | | | |
| INPUT | SWITCHING FREQUENCY | 60KHz min. | | | | | | | | | |
| | VOLTAGE RANGE | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V | |
| | NORMAL VOLTAGE | 5V | 12V | 24V | 5V | 12V | 24V | 5V | 12V | 24V | |
| | INPUT CURRENT | Full load | 740mA | 305mA | 155mA | 715mA | 300mA | 150mA | 705mA | 300mA | 145mA |
| | | No load | 60mA | 25mA | 15mA | 65mA | 25mA | 15mA | 65mA | 30mA | 15mA |
| FILTER | Capacitor type | | | | | | | | | | |
| PROTECTION | Fuse recommended | | | | | | | | | | |
| PROTECTION | OVERLOAD | Momentary Protection type : Broken | | | | | | | | | |
| | SHORT CIRCUIT | Momentary Protection type : Broken | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -40 ~ +90°C (Refer to "Derating Curve") | | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +105°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03% / °C (0 ~ 50°C) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | EAC TP TC 020/2011 approved | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 3KVDC | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | |
| | ISOLATION CAPACITANCE | 80pF max. | | | | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 Class B, FCC part 15 Class B, EAC TP TC 020 | | | | | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020 | | | | | | | | | |
| | MTBF | 700khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | |
| | DIMENSION | 19.6*7.5*10.2mm or 0.77**0.30**0.40" inch (L*W*H) | | | | | | | | | |
| | PACKING | 2.9g ; 25pcs/per tube, 4000pcs/160 tube/per carton | | | | | | | | | |

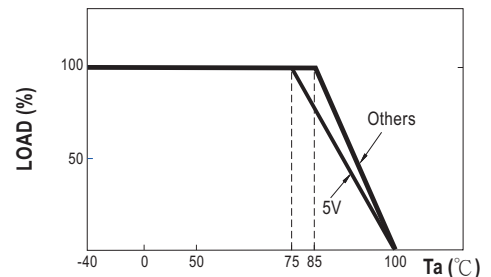
■ Mechanical Specification



■ Pin Configuration

| Pin No. | Output |
|---------|--------|
| 1 | +Vin |
| 2 | -Vin |
| 5 | -Vout |
| 7 | +Vout |

■ Derating Curve



NOTE

- All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
 - Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
 - Line regulation is measured from low line to high line at rated load.
 - Load regulation is measured from 20% to 100% rated load.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

■ Packing

| Standard Tube Packing | MPQ Per Tube (PCS) | One Tube G.W. | Max. Q'TY/ Carton(PCS) | One Carton G.W. |
|---|--------------------|---------------|------------------------|-----------------|
| <p>Unit : mm</p> <p>Product</p> <p>Tube Plugs</p> <p>520</p> <p>15 4.2 11 9.1</p> <p>Tube pattern</p> <p>W H L</p> <p>CARTON L600 x W230 x H220</p> | 25 | 100g | 4000 | 16.8Kg |

■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>