



■ Features :

- 2"×1" compact size
- 2:1 wide input range
- High efficiency up to 89.5%
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in trimming output
- Built-in EMI filter
- Protections: Short circuit / Overload / Input and Output Over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / EAC / CE / UKCA
- 2 years warranty

■ GTIN CODE

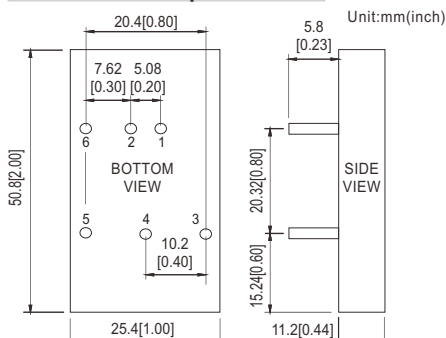
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



SPECIFICATION

| ORDER NO.                      | SKA20A-05   | SKA20B-05  | SKA20C-05  | SKA20A-12  | SKA20B-12    | SKA20C-12 | SKA20A-15  | SKA20B-15    | SKA20C-15 |       |       |
|--------------------------------|---|--|--|------------|--------------|-----------|------------|--------------|-----------|-------|-------|
| OUTPUT                         | DC VOLTAGE  | 5V   |  |            | 12V          |           |            | 15V          |           |       |       |
|                                | CURRENT RANGE   | 400 ~ 4000mA   |  |            | 166 ~ 1666mA |           |            | 133 ~ 1333mA |           |       |       |
|                                | RATED POWER   | 20W  |  |            |              |           |            |              |           |       |       |
|                                | RIPPLE & NOISE (max.) Note.2  | 50mVp-p  |  |            | 60mVp-p      |           |            | 60mVp-p      |           |       |       |
|                                | LINE REGULATION Note.3  | ±0.2%  |  |            |              |           |            |              |           |       |       |
|                                | LOAD REGULATION Note.4  | ±0.5%  |  |            |              |           |            |              |           |       |       |
|                                | VOLTAGE ACCURACY  | ±2.0%  |  |            |              |           |            |              |           |       |       |
|                                | SWITCHING FREQUENCY   | 300KHz typ.  |  |            |              |           |            |              |           |       |       |
|                                | EXTERNAL CAPACITANCE LOAD (max.)  | 1000uF   |  |            | 220uF        |           |            | 100uF        |           |       |       |
| EXTERNAL TRIM Adj. RANGE(Typ.) | ±10%  |  |  | -20 ~ +10% |              |           | -20 ~ +10% |              |           |       |       |
| INPUT                          | VOLTAGE RANGE   | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC   |  |            |              |           |            |              |           |       |       |
|                                | EFFICIENCY (Typ.)   | 87.5%  | 88%  | 88.5%      | 88%          | 88.5%     | 87.5%      | 89%          | 89.5%     | 88%   |       |
|                                | DC CURRENT  | Full load  | 1910mA   | 970mA      | 490mA        | 1910mA    | 970mA      | 500mA        | 1870mA    | 950mA | 490mA |
|                                |   | No load  | 80mA   | 55mA       | 40mA         | 35mA      | 25mA       | 15mA         | 35mA      | 25mA  | 15mA  |
|                                | FILTER  | Pi network   |  |            |              |           |            |              |           |       |       |
| REMOTE CONTROL                 | Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short |  |  |            |              |           |            |              |           |       |       |
| PROTECTION                     | Fuse recommended  |  |  |            |              |           |            |              |           |       |       |
| PROTECTION (Note. 5)           | OVER CURRENT  | 110% ~ 180% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed         |  |            |              |           |            |              |           |       |       |
|                                | SHORT CIRCUIT   | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |  |            |              |           |            |              |           |       |       |
|                                | OVER VOLTAGE  | Input(Typ.)  | A: >20 ~ 23VDC B: >40 ~ 43VDC C: >80 ~ 82VDC input voltage |            |              |           |            |              |           |       |       |
| Output                         |   | Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed                                 |  |            |              |           |            |              |           |       |       |
| ENVIRONMENT                    | WORKING TEMP.   | -40 ~ +85°C (Refer to "Derating Curve")  |  |            |              |           |            |              |           |       |       |
|                                | WORKING HUMIDITY  | 20% ~ 90% RH non-condensing  |  |            |              |           |            |              |           |       |       |
|                                | STORAGE TEMP., HUMIDITY   | -55 ~ +125°C, 10 ~ 95% RH  |  |            |              |           |            |              |           |       |       |
|                                | TEMP. COEFFICIENT   | ±0.03% / °C (0 ~ 50°C)   |  |            |              |           |            |              |           |       |       |
|                                | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |  |            |              |           |            |              |           |       |       |
| SAFETY & EMC                   | SAFETY STANDARDS  | EAC TP TC 020/2011 (EAC TP TC 004 for 48Vin type only) approved  |  |            |              |           |            |              |           |       |       |
|                                | WITHSTAND VOLTAGE   | I/P-O/P:1.5KVDC  |  |            |              |           |            |              |           |       |       |
|                                | ISOLATION RESISTANCE  | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH  |  |            |              |           |            |              |           |       |       |
|                                | EMC EMISSION  | Compliance to BS EN/EN55032 Class A, FCC part 15 Class A, 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                      | 50.8*25.4*11.2 mm or 2**1**0.44" inch (L*W*H)   |  |  |            |              |           |            |              |           |       |       |
|                                | WEIGHT  | 31.2g  |  |            |              |           |            |              |           |       |       |

■ Mechanical Specification

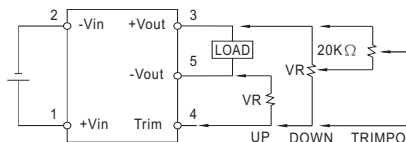


■ Pin Configuration

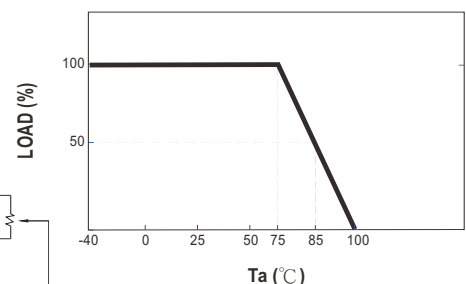
| Pin No. | Output | Pin No. | Output |
|---------|--------|---------|--------|
| 1       | +Vin   | 4       | Trim   |
| 2       | -Vin   | 5       | -Vout  |
| 3       | +Vout  | 6       | R.C    |

NOTE: Pin Size is Tolerance 1.0φ ±0.10mm

■ External Output Trimming



■ Derating Curve



NOTE

- 1.All parameters are specified at normal 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 10% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>