



DC - DC CONVERTER MODEL **SDC 75.5** (75 WATTS)

APPLICATION:

- * Satellite
- * Communication
- * mobile or battery based electronic equipment
- * mobile Communication
- * Audio Equipment
- * Cash Register
- * Ticket Printer
- * Test, Measuring, and other Instrumentation

FEATURES:

- | | | |
|----------------------------|--------------------------|-----------------------------|
| * 5 Output Voltages | * Input Filters | * RF In- and Output Filters |
| * WIDE Input Voltage Range | * very small Dimensions | * high Efficiency |
| * Overvoltage Protection | * high Power Density | * Power Fail Signal Output |
| * (Input and Output) | * COMPACT Design | * Input ENABLE Terminal |
| * Short Circuit Protection | * RF tight Metal Housing | * very low RF Interference |

DESCRIPTION:

SDC 75.5 is based on our SDC 60.4 DC/DC Converter unit, except that it is packaged for much smaller space, while having a higher Wattage output and also additional outputs. The unit provides high efficiency from a very low voltage battery supply and works over a temperature range of -40 to + 80 degrees C.

The selected conversion frequency is 200, respective 266.6 kHz. At this frequency there was no need for high value capacitances. Bulky temperature dependent electrolytic capacitors vary their capacitance greatly over the anticipated temperature range, and also have limited life expectancy. Small multilayer ceramic capacitances have been selected for this purpose.

It was decided that 2 separate output filters should be made for the +/-15 Volt, +5 and -5 Volt outputs. Also, the 28 Volt output circuit and filter has been designed to reduce ringing and parasitic effects. The frequency response is therefor also increased to higher frequencies.

The regulation of the different output voltages has been greatly improved, while the RF ripples at the output are further reduced. Further reduction in size could be achieved, performance greatly improved, production simplified, and overall costs reduced. We consider that we have a high quality, low loss DC/DC Converter with a new and advanced technology.

Technical Data:

All Specifications are measured at 12 Volt Input and 25°C

INPUT :

Input Voltage: 12V nom.

Start Treshold Voltage: 9V

Min. Operating Voltage: 8V

Max. Operating Voltage: 17V

Reverse Polarity Protection

Input Transient Protection

Operating Temperature: -25° to +70°C

Efficiency: 80% min.

Weight: 14oz. / 400 grams

Mechanical Dimensions:

Drawing Size 1:2

6.90" [175.3mm] x 3.80 [96.5mm] x 0.95" [24.0mm]

