

SCRC_kV_i

Advance Information

FEATURES

-Compact module design -High reliability -Wide range

APPLICATION

- -Thyristor control equipment
- -Rectifiers (diode / thyristor circuits)
- -Output filter



High voltage RC snubber modules



Photo non-contractual

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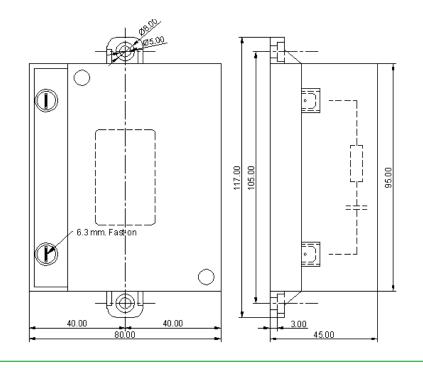
ELECTRICAL COMMON SPECIFICATIONS	
Capacitance tolerance	± 20%
Resistance tolerance	± 20%
Continuous maximum power dissipation (T _{HS} =85°C)	12 W.
Minimum peak power dissipation	45 W

50% RH @ 35°C / 90% RH @ 20°C
III
10000 V _{RMS} / 1 min

MECHANICAL SPECIFICATIONS

Mounting position	Any
Aprox. Weight	Aprox.470 grs.
Operation temperature	-25 to 85 °C

MODULE DIMENSIONS & CIRCUIT CONFIGURATION



Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.



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AVAILABLE TYPES					
Reference	V _{DCMAX}	Maximum AC voltage	Resistance value	Maximum peak power	Capacitor valiue
SCRC0,15/56T-3kV	3000	$2000 V_{RMS}$	56 Ohms	45 W.	0,15µF
SCRC0,33/56T-3kV					0,33µF
SCRC0,12/56T-4kV	4000	$2000 V_{RMS}$			0,12µF
SCRC0,25/56T-4kV					0,25µF
SCRC0,10/56T-5kV	5000	000 3500 V _{RMS}			0,1µF
SCRC0,22/56T-5kV	5000	3300 V _{RMS}			0,22µF
SCRC0,16/72T-6kV	6000	4200 V _{RMS}	72 Ohms	60 W.	0,16µF
SCRC0,12/72T-8kV	8000	5000 V _{RMS}			0,12µF

APPLICATION HELP

Peak current calculation:

 $I_p = V_p / R$

Ip: Current peak V_p : Voltage peak R: Resistance value (Ohms)

dV/dt calculation:

dV/dt=V_P/RC

dV/dt: Peak dV/dt in V/ μ s. V_p: Voltage peak R: Resistance value in Ohms C: Capacitance value in μ F

 $I_{\rm RMS}$ calculation:

I_{RMS}=2**∏fCV x 10**-6

 $\begin{array}{l} I_{\text{RMS}} \colon \text{RMS current in A} \\ \text{f: Frequency in Hz} \\ \text{C: Capacitance value in } \mu\text{F} \\ \text{V: RMS Voltage} \end{array}$

Resistance power calculation:

$W=(I_{RMS})^2 x R$

W: Power losses on resistance in W I_{RMS} : RMS current in A. R: Resistance value in Ohms

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091209 Rev.:0

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