FILM - RESISTORS

The following equations and data may be used to calculate the admissible pulse load of Film resistors. The equations are the results of many separate experiments and represent the sum of experience. Several other factors, often application related, cannot be considered in our formula which should give safe operation information rather than exact limiting data.

After calculating the provisional results, testing to the specific requirements is recommended.

admissible pulse load $P_{max} = \sqrt{\frac{F}{t}}$ [W]

admissible pulse duration $t_{max} = \frac{F}{P^2}$ [sec]

where P= actual occurring power peak

minimum interval between pulses:

$$t_{min} = P \cdot \frac{t}{P_{70}} \text{ [sec]}$$

where t= actual pulse duration

The equations are applicable for the interval:

$$1 \cdot 10^{-6} \leq t \leq 100 \cdot 10^{-3} \text{ [sec]}$$

under the conditions:

$$P_{avg}(t) \leq P_{70}$$

Type		P_{70} [W]	F	U_{max} [V_{rms}]
RG	515	0,5	3	4.000
	520	0,7	3	4.000
RGU	526	0,5	3	700
ZC [1)]	0204	0,25	1,25	1.400
	0207	1,0	2,5	2.000
PO [1)]	Series	1.....4	Special datasheet available	

[1)] Special datasheet available