

type; no: KLS-322 project: 1269 date; visa: 12.10.89 Gys.

B. OPTICAL TEST

(for instruction see 86.0207-01-01ff)

1. STANDARD RESONATOR

1.1. adjusting

0.5m

1.5m

U= 400 V
t= 2 ms
f= 10 Hz
E= 7,2 J



U= 400 V
t= 2 ms
f= 10 Hz
E= 7,2 J



1.2. calibration

reference-instr.: Quantronix

(for instructions see 86.0205-01 or -02)

	U	t	f	E(dsp)	E(ref)	factor
A	<u>340</u> V	<u>3</u> ms	<u>10</u> Hz	<u>7,03</u> J	<u>7,00</u> J	SP28= <u>76,50</u>
A	<u>350</u> V	<u>1</u> ms	<u>10</u> Hz	<u>2,25</u> J	<u>2,24</u> J	dev.= <u>0,4%</u>
B	<u>400</u> V	<u>3</u> ms	<u>10</u> Hz	<u>10,10</u> J	<u>10,12</u> J	SP29= <u>70</u>
B	<u>630</u> V	<u>1</u> ms	<u>10</u> Hz	<u>11,45</u> J	<u>11,70</u> J	dev.= <u>2,13%</u>

1.3. energy / power limit

U	t	f	E(dsp)	P=E(dsp)xf
350 V	1 ms	<u>162,0</u> Hz	<u>2,65</u> J	<u>429,20</u> W
350 V	3 ms	<u>55,0</u> Hz	<u>9,40</u> J	<u>517,00</u> W
350 V	10 ms	<u>16,5</u> Hz	<u>31,80</u> J	<u>524,70</u> W
400 V	1 ms	<u>110,5</u> Hz	<u>3,65</u> J	<u>403,32</u> W
400 V	3 ms	<u>36,8</u> Hz	<u>10,85</u> J	<u>399,28</u> W
700 V	3 ms	<u>6,9</u> Hz	<u>41,4</u> J	<u>285,66</u> W

minimum energy / power

type	350V 1ms	350V 3ms	350V 10ms	400V 1ms	400V 3ms	700V 3ms	Pmax.
KLS 112:	5.0J	11J	-	-	-	-	110W
KLS 322:	1.5J	4.5J	16J	2.2J	6.0J	30J	330W
KLS 522:	2.7J	8.0J	22J	4.0J	12J	50J	440W

DS: X,28-20-12, 29-10-05

D:80 F:F871034 T:ATPKLS