Carlos Mergulhão
circuit design
Miguel Nobuco
layout design
Dx Super A
Zimmer layout revision
Made in Brazil
+V
–V
GND
– Input +
OUTPUT
BD139
BD140
2SC2922
2SA1216
200R
1uH
47u/100V
220n
100n
4n7
1n
22n
68n
82n
150n
180n
270n
330n
560n
680n
1K
1K5
2K2
3K3
5K6
8K2
10K
12K
15K
18K
22K
27K
33K
39K
47K
56K
68K
82K
100K
120K
150K
180K
220K
270K
330K
390K
470K
560K
680K
820K
1M
1M2
1M5
2M2
3M3
4M7
5M6
6M8
10M
12M
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18M
22M
27M
33M
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47M
56M
68M
82M
100M
120M
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220M
270M
330M
390M
470M
560M
680M
820M
1G
1G2
1G5
2G2
3G3
4G7
5G6
6G8
10G
12G
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27G
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39G
47G
56G
68G
82G
100G
120G
150G
180G
220G
270G
330G
390G
470G
560G
680G
820G
1T
1T2
1T5
2T2
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4T7
5T6
6T8
10T
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15T
18T
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100T
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180T
220T
270T
330T
390T
470T
560T
680T
820T
1P
1P2
1P5
2P2
3P3
4P7
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220P
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390P
470P
560P
680P
820P
1N
1N2
1N5
2N2
3N3
4N7
5N6
6N8
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12N
15N
18N
22N
27N
33N
39N
47N
56N
68N
82N
100N
120N
150N
180N
220N
270N
330N
390N
470N
560N
680N
820N
1U
1U2
1U5
2U2
3U3
4U7
5U6
6U8
10U
12U
15U
18U
22U
27U
33U
39U
47U
56U
68U
82U
100U
120U
150U
180U
220U
270U
330U
390U
470U
560U
680U
820U