

## TPA3118/TPA3128 Continous Power Test

Each test has been carried out for 10 minutes at least.

		TPA3118	TPA3128
V(in)	V(dc)	15	15
I(in)	A(dc)	1.5	1.5
R(load)	ohms	5	5
f(signal)	Hz	1000	1000
V(out)	V(rms)	10.3	10.3
t(case)	C	40	38
t(amb)	C	17	17

		TPA3118	TPA3128
V(in)	V(dc)	24	24
I(in)	A(dc)	2.4	2.45
R(load)	ohms	5	5
f(signal)	Hz	1000	1000
V(out)	V(rms)	16.3	16.4
t(case)	C	91	87
t(amb)	C	17	17

## Conclusion

Keeping in mind the last test is an absolute worst-case scenario with

- 24V supply instead of 15V (Li-Ion 4S1)
- 5R dummy load instead of 8R speaker
- 10min of continous power at light clipping instead of real music

Not omitting the fact that TPA incorporates a reliable overtemp protection it is obvious that there is a huge headroom for safety in mobile applications making this one a real "**cool runner**". The differences between TPA3118 and TPA3128 losses is marginal as is the difference in their price tag.