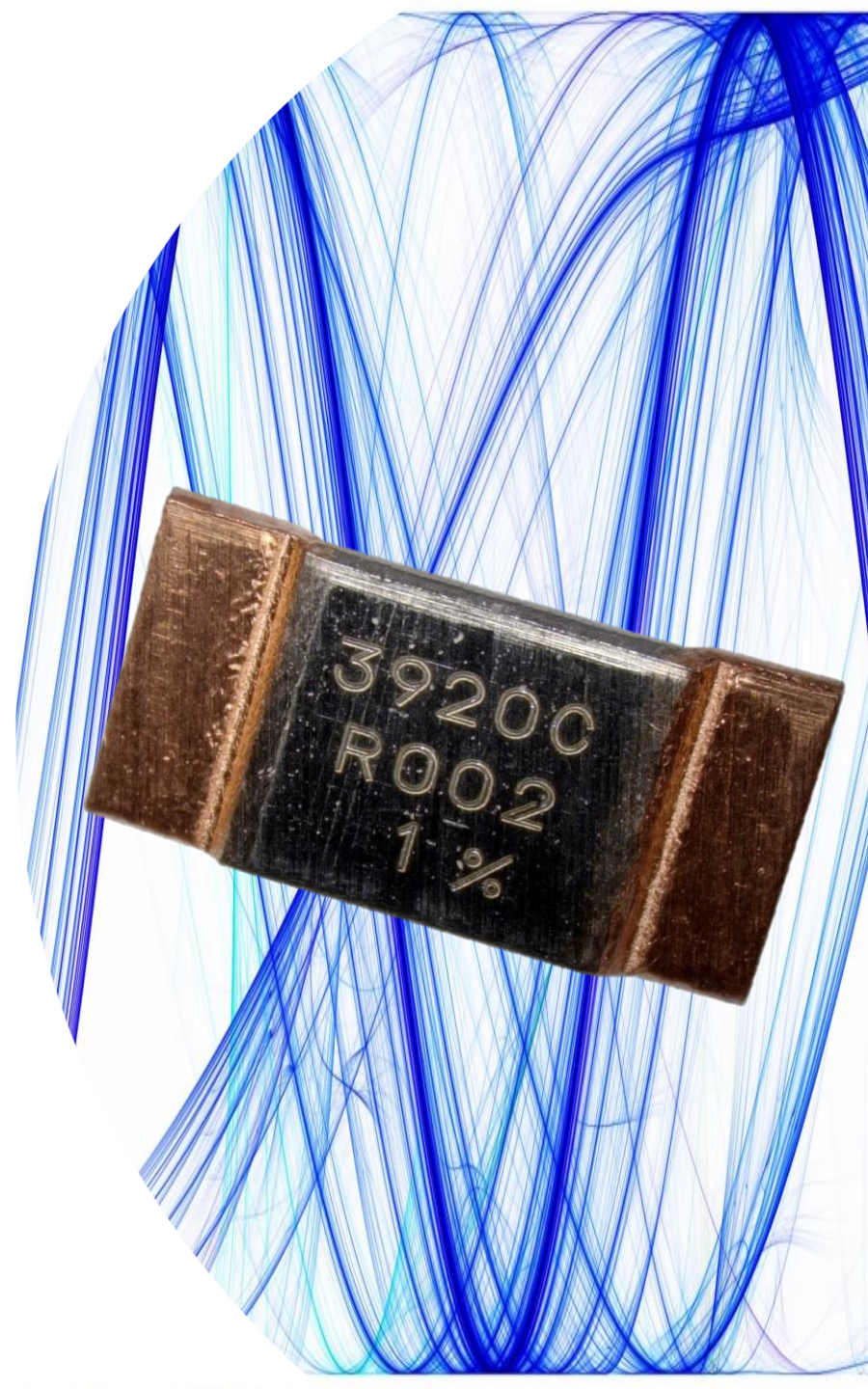




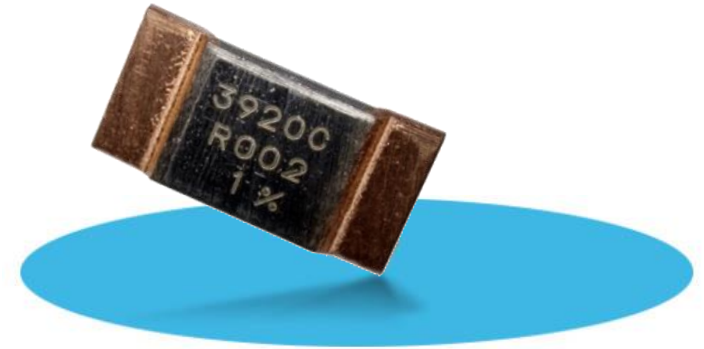
LRMAP3920

New Current Sense Product
Low Resistance Metal Alloy
Power Resistor



LRMAP3920 Key Features and Applications

- 5W rating on FR4 PCB
- 10W rating on thermal substrate
- AEC-Q200 qualified
- Values 200 $\mu\Omega$ to 2m Ω
- High surge energy up to 14J

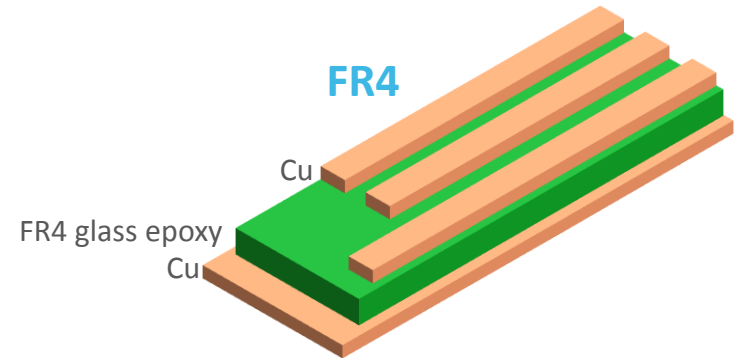


- PSU
- Motor drive
- Process control
- Battery monitoring
- Power hybrids

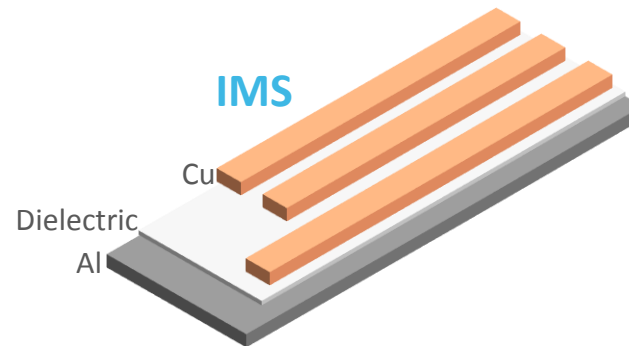
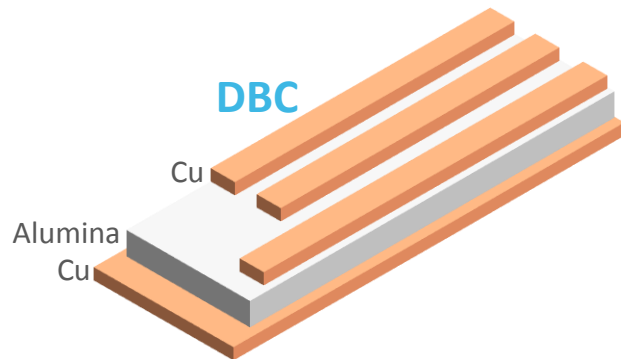
LRMAP3920 Mounting Conditions

It is **essential** to understand mounting conditions associated with power ratings. Datasheets are often unclear – but ours gives clear details.

FR4 PCB rating: up to 5W



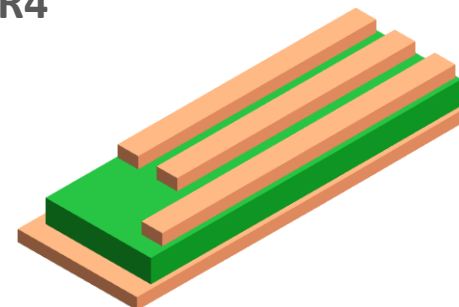
Thermal substrate rating: up to 10W



LRMAP3920 Mounting Conditions

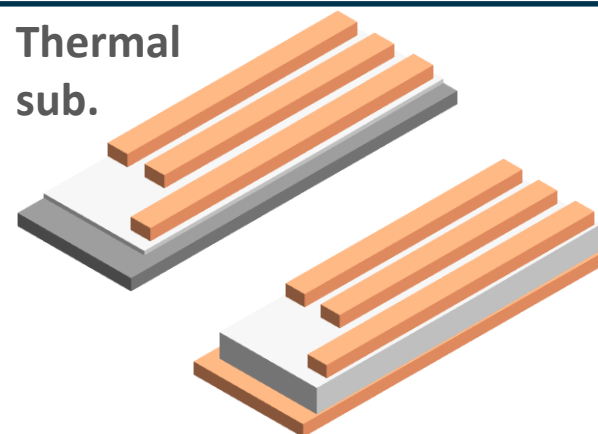
Supplier & Type	TTE	Vishay	Isabellenhütte
Ohmic Value	LRMAP3920	WSLP3921	BVS
R0002	5	Not stated on datasheet	5
R0003	5		5
R0005	5		5
R0007	5		5
R001	4 / 5		4 / 5
R0015	4.5		4.5
R002	4		4

FR4



Supplier & Type	TTE	Vishay	Isabellenhütte
Ohmic Value	LRMAP3920	WSLP3921	BVS
R0002	10	9	12
R0003	10	9	10
R0005	10	9	9
R0007	10	N/A	8
R001	7	5	7
R0015	7	5	7
R002	7	5	6

Thermal
sub.



LRMAP3920 Outline Data

		LRMAP3920							
Alloy type		A	B				C		
Resistance value	mΩ	0.2	0.3	0.5	0.7	1	1	1.5	2
Power rating (standard), P _{r120}	W	5				4	5	4.5	4
Power rating (thermal substrate), P _{rts70}	W	10				7			
Overload rating (5s) ¹	W	25				20	25	23	20
Continuous pulse energy	J	11	13	8	6	4	12	9	6
Internal thermal impedance, R _{thi}	°C/W	2.5	4	6	9	12	7	11	14
Resistance tolerance	%	1, 5							
TCR (20 to 60°C)	ppm/°C	±200	±150	±70	±60	±50			
Thermal EMF	μV/°C	<2							
Inductance	nH	<3							
Ambient temperature	°C	-55 to 170							

For full data see <http://www.ttelectronicsresistors.com/datasheets/LRMA3920.pdf>

Thank You

