

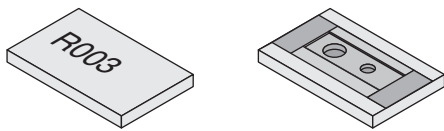
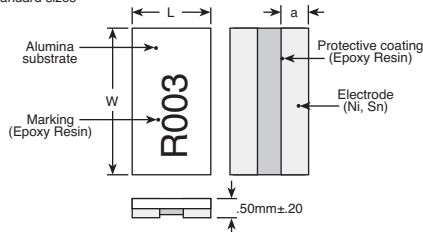
# OHMITE Metal Foil Current Sense Resistors



## FCSL SERIES

### Features:

- Foil Construction ensures a very stable TCR (Temperature Coefficient of Resistance)
- Designed for automatic insertion
- Industry standard sizes
- High heat resistant use
- Low heat electromotive use
- Color: White (top) and green (bottom)



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Ohmite Part No.	Value (Ω)	Tolerance Value	Price Each				Reel Qty. 1000
				1	50	100	500	
<b>2 Watt</b>								
588-FCSL64R010FER	FCSL64R010FER	0.01	1%	.76	.68	.60	.48	.45
588-FCSL64R025FER	FCSL64R025FER	0.025	1%	.76	.68	.60	.48	.45
588-FCSL64R050FER	FCSL64R050FER	0.05	1%	.76	.68	.60	.48	.45
588-FCSL64R002GER	FCSL64R002GER	0.002	2%	.76	.68	.60	.48	.45
588-FCSL64R001JER	FCSL64R001JER	0.001	5%	.76	.68	.60	.48	.45
<b>3 Watt</b>								
588-FCSL76R010FER	FCSL76R010FER	0.01	1%	.95	.85	.75	.60	.567
588-FCSL76R025FER	FCSL76R025FER	0.025	1%	.95	.85	.75	.60	.567
588-FCSL76R050FER	FCSL76R050FER	0.05	1%	.95	.85	.75	.60	.567
588-FCSL76R002GER	FCSL76R002GER	0.002	2%	.95	.85	.75	.60	.567
588-FCSL76R001JER	FCSL76R001JER	0.001	5%	.95	.85	.75	.60	.567
<b>4 Watt</b>								
588-FCSL90R010FER	FCSL90R010FER	0.01	1%	1.20	1.07	.95	.76	.71
588-FCSL90R025FER	FCSL90R025FER	0.025	1%	1.20	1.07	.95	.76	.71
588-FCSL90R050FER	FCSL90R050FER	0.05	1%	1.20	1.07	.95	.76	.71
588-FCSL90R002GER	FCSL90R002GER	0.002	2%	1.20	1.07	.95	.76	.71
588-FCSL90R001JER	FCSL90R001JER	0.001	5%	1.20	1.07	.95	.76	.71

Series	Power Rating	Resistance Range	Tol.	TCR (ppm/°C)	Dim: (in.±0.008/mm±0.20)		
					L	W	a
FCSL64	2.0W	1mΩ	±5%	±150	0.122/3.1	0.248/6.3	0.047/1.2
		2mΩ	±2%	±100			
		3mΩ ~ 50mΩ	±1%	±50			
FCSL76	3.0W	1mΩ	±5%	±150	0.15/3.8	0.3/7.6	0.053/1.35
		2mΩ	±2%	±100			
		3mΩ ~ 50mΩ	±1%	±50			
FCSL90	4.0W	1mΩ	±5%	±150	0.177/4.5	0.35/8.9	0.063/1.6
		2mΩ	±2%	±100			
		3mΩ ~ 50mΩ	±1%	±50			

# OHMITE Metal Element Current Sense Resistors



## MCS SERIES

### Features:

- NiCu or MnCu resistive alloy; material TCR ±10ppm/°K
- Marking epoxy UL-94-V0 conformal
- 96% alumina substrate thermo dissipation protective layer
- Cu terminal electrode Pb-free termination
- Flame-retardant epoxy protective coat (UL-94-V0)
- Ultra low resistance value (0.005Ω ~ 0.050Ω); long side electrode to satisfy the most demanding current-sense applications.
- Precision resistance alloy (NiCr20AlSi, or CuMnNi); material selected for low TCR (<50ppm/°C)
- Superior temperature coefficient characteristics; resistance vs. temp. change from 25°C to 125°C within 10ppm/°C ~ 50ppm/°C
- Low inductance, low thermo EMF (<50μV/°C)

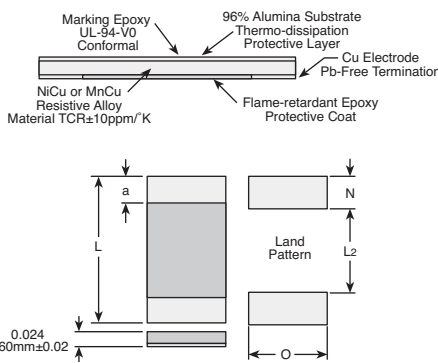
### Applications:

- Industrial electronics, power electronics: power supply, DC/DC converter, AC/DC converter, motor controller, automotive electronics
- Battery charger, PC, PDA, 3C products, Telecommunications, instruments, white goods



RoHS Compliant

Size	L	W	a	N	L2	0	Solder Thickness (μm/w)
MCS1632	0.126/3.20	0.063/1.60	0.020/0.50	0.059/1.50	0.039/1.00	0.079/2.00	35/0.5, 105/1.0
MCS3264	0.252/6.40	0.126/3.20	0.040/1.00	0.079/2.00	0.165/4.20	0.150/3.80	35/1.0, 105/2.0



MOUSER STOCK NO.	Ohmite Part No.	Value (Ω)	Tolerance Value	Price Each					Reel 5000
				1	50	100	500	1000	
<b>1 Watt</b>									
588-MCS1632R005FER	MCS1632R005FER	0.005	1%	.35	.31	.28	.22	.21	.20
588-MCS1632R010FER	MCS1632R010FER	0.01	1%	.35	.31	.28	.22	.21	.20
588-MCS1632R015FER	MCS1632R015FER	0.015	1%	.35	.31	.28	.22	.21	.20
588-MCS1632R020FER	MCS1632R020FER	0.02	1%	.35	.31	.28	.22	.21	.20
588-MCS1632R025FER	MCS1632R025FER	0.025	1%	.35	.31	.28	.22	.21	.20
588-MCS1632R030FER	MCS1632R030FER	0.03	1%	.35	.31	.28	.22	.21	.20
588-MCS1632R050FER	MCS1632R050FER	0.05	1%	.35	.31	.28	.22	.21	.20
<b>2 Watt</b>									
588-MCS3264R005FER	MCS3264R005FER	0.005	1%	.40	.36	.32	.26	.25	.24
588-MCS3264R010FER	MCS3264R010FER	0.01	1%	.40	.36	.32	.26	.25	.24
588-MCS3264R015FER	MCS3264R015FER	0.015	1%	.40	.36	.32	.26	.25	.24
588-MCS3264R020FER	MCS3264R020FER	0.02	1%	.40	.36	.32	.26	.25	.24
588-MCS3264R025FER	MCS3264R025FER	0.025	1%	.40	.36	.32	.26	.25	.24
588-MCS3264R030FER	MCS3264R030FER	0.03	1%	.40	.36	.32	.26	.25	.24
588-MCS3264R050FER	MCS3264R050FER	0.05	1%	.40	.36	.32	.26	.25	.24

# OHMITE Axial Current Sense Resistors



## 14A SERIES

### Specifications:

- Terminals: Solder-plated copper terminals or copper clad steel depending on ohmic value.
- TCR: Varies from +150°C to +1100ppm/°C based on resistance value. TCR increases as resistance value reduces from 51 to 4 milliohms. TCR is tested as per IEC Specification 115-1 Clause 4.8.4.2
- Power rating: 4W@70°C
- Temperature range: -55°C to 275°C.

### Features:

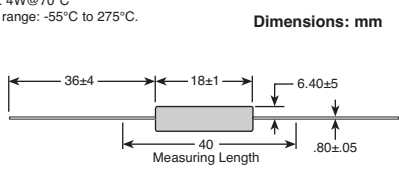
- Ideal for current sensing applications
- 1% Tolerance standard
- Fixed resistance measuring point
- Low inductance
- RoHS compliant



RoHS Compliant

Series	Wattage	Ohms	Length (mm)	Dia. (mm)	M (mm)	Lead (mm)
14A	4	0.004-0.051	0.709/18	0.252/6.40	1.575/40	0.031/0.80

For quantities of 2000 and up, call for quote.



MOUSER STOCK NO.	Ohmite Part No.	Value (Ω)	Price Each				
			1	50	100	500	1000
588-14AFR004E	14AFR004E	0.004	2.15	1.30	1.12	.94	.93
588-14AFR005E	14AFR005E	0.005	2.15	1.30	1.12	.94	.93
588-14AFR008E	14AFR008E	0.008	2.15	1.30	1.12	.94	.93
588-14AFR010E	14AFR010E	0.010	2.15	1.30	1.12	.94	.93
588-14AFR015E	14AFR015E	0.015	2.15	1.30	1.12	.94	.93
588-14AFR022E	14AFR022E	0.022	2.15	1.30	1.12	.94	.93
588-14AFR033E	14AFR033E	0.033	2.15	1.30	1.12	.94	.93
588-14AFR047E	14AFR047E	0.047	2.15	1.30	1.12	.94	.93
588-14AFR051E	14AFR051E	0.051	2.15	1.30	1.12	.94	.93



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