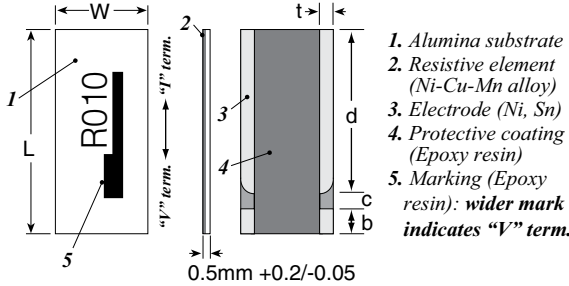




# FC4L Series

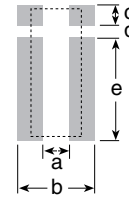
## FC4L Four Terminal Current Sense Metal Foil Construction

### DIMENSIONS



1. Alumina substrate
2. Resistive element (Ni-Cu-Mn alloy)
3. Electrode (Ni, Sn)
4. Protective coating (Epoxy resin)
5. Marking (Epoxy resin): wider mark indicates "V" term.

### Land Pattern



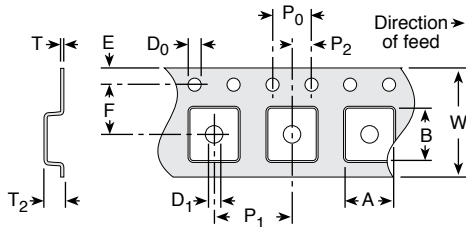
	Rating	L (in. ±0.008/mm ±0.20)	W (in./mm)	t (in./mm)	b mm ±0.15	c mm ±0.1	d mm ±0.15
FC4L16	0.25 watt	0.063 / 1.60	0.031 / 0.8	0.010 / 0.26	0.30 ±2	0.3 ±2	1.0 ±2
FC4L32	1 watt	0.126 / 3.20	0.063 / 1.6	0.014 / 0.35	0.35	0.2	2.6
FC4L64	2 watt	0.251 / 6.40	0.126 / 3.2	0.020 / 0.5	0.7	0.5	5.2
FC4L110	5 watt	0.433 / 11.0	0.197 / 5.0	0.028 / 0.7	1.4	1.1	8.5

(mm)	a	b	c	d	e
FC4L16	0.25	1.2	0.40	0.30	1.2
FC4L32	0.4	2.7	0.35	0.3	2.7
FC4L64	2.0	4.4	0.7	0.5	5.4
FC4L110	3.2	5.6	1.6	1.1	8.7

### PACKAGING SPECIFICATIONS

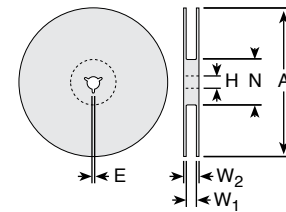
#### Tape

inches (mm)



	FC4L16	FC4L32	FC4L64	FC4L110
A	0.037 (0.95±0.05)	0.075 (1.90 ±0.1)	0.135 (3.43 ±0.2)	0.213 (5.40 ±0.10)
B	0.073 (1.85±0.05)	0.138 (3.50 ±0.1)	0.261 (6.63 ±0.2)	0.453 (11.50 ±0.10)
W	0.315 (8.00±0.10)	0.315 (8.00 ±0.2)	0.472 (12.0 ±0.3)	0.945 (24.00 ±0.30)
F	0.138 (3.50±0.05)	0.138 (3.50 ±0.05)	0.069 (1.75 ±0.1)	0.069 (1.75 ±0.10)
E	0.069 (1.75±0.10)	0.069 (1.75 ±0.1)	0.217 (5.5 ±0.05)	0.453 (11.50 ±0.10)
P0	0.157 (4.00±0.10)	0.157 (4.0 ±0.1)	0.157 (4.0 ±0.1)	0.157 (4.00 ±0.10)
P1	0.157 (4.00±0.10)	0.157 (4.0 ±0.1)	0.157 (4.0 ±0.1)	0.315 (8.00 ±0.10)
P2	0.079 (2.00±0.05)	0.079 (2.0 ±0.05)	0.079 (2.0 ±0.05)	0.079 (2.00 ±0.10)
D0	0.059 (1.50±0.10/-0)	0.059 (1.50 ±0.1/-0)	0.059 (1.5 ±0.1/-0)	0.059 (1.50 ±0.10)
D1	0.024 (0.60±0.05)	0.039 (1.00 ±0.2/-0)	0.059 (1.5 ±0.2/-0)	0.059 (1.50 ±0.10)
T	0.008 (0.20±0.05)	0.008 (0.20 ±0.05)	0.008 (0.20 ±0.05)	0.012 (0.30 ±0.05)
T2	0.022 (0.55±0.05)	0.039 (1.00 ±0.2)	0.059 (1.5) max.	0.047 (1.2 ±0.15)

#### Reel



	FC4L16	FC4L32 & 64	FC4L110
A	7.087 (180 +0/-3)	7.087 (180 +0/-3)	7.087 (180 ±2.0)
H	0.512 (13 ±0.2)	0.512 (13 ±0.2)	0.512 (13 ±0.2)
E	0.079 (2.0 ±0.5)	0.079 (2.0 ±0.5)	0.079 (2.0 ±0.5)
N	2.362 (60 +1/-0)	2.362 (60 +1/-0)	0.827 (21 ±0.8)
W1	0.354 (9.0 ±0.3)	0.512 (13.0 ±0.3)	1.000 (25.4 ±1.0)
W2	0.512 (13.0 ±0.3)	0.669 (17.0 ±1.4)	1.157 (29.4 ±1.0)

### ORDERING INFORMATION

Ohms  
R005=0.005Ω  
R050=0.050Ω    RoHS Compliant

## FC4L110R005FER

<b>Series</b>	<b>TCR* (ppm)</b>	<b>Package Size</b>	<b>Tolerance</b>	<b>Taping Code</b>
W = 25	110=11050=5W	J = 5%	1,000 pc/reel	FC4L16: 5,000 pc/reel
V = 50	64=6432=2W	G = 2%		
L = per chart above	32=3216=1W 16=1608=0.25W	F = 1% D = 0.5%		

\*FC4L32 and FC4L64 values over 0.100Ω only

#### Standard Part Numbers for FC4L series

	0.25 watt	1 watt	2 watt	5 watt
FC4L16R005FER	FC4L32R001JER FC4L32R002GER FC4L32R003FER FC4L32R005FER	FC4L64R001JER FC4L64R002GER FC4L64R003FER FC4L64R005FER	FC4L110R001JER FC4L110R002GER FC4L110R003FER FC4L110R005FER	FC4L110R010DER FC4L110R010FER FC4L110R015DER FC4L110R015FER
FC4L16R010FER	FC4L32R010FER	FC4L64R010FER FC4L64R015DER	FC4L110R020DER FC4L110R020FER FC4L110R025DER FC4L110R025FER	FC4L110R030DER FC4L110R030FER
FC4L16R015FER	FC4L32R015FER	FC4L64R020FER FC4L64R025DER	FC4L110R050DER FC4L110R050FER	FC4L110R100FER
FC4L16R020FER	FC4L32R020FER	FC4L64R030DER		
FC4L16R025FER	FC4L32R025FER	FC4L64R050DER		
FC4L16R030FER	FC4L32R030FER			
FC4L16R050FER	FC4L32R050FER			
FC4L16R100FER	FC4L32R100FER			