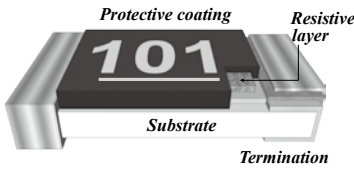


FNF

■ Anti-Surge Lead Free & Halogen Free Chip Resistors



FEATURES

- High reliability and compact size.
- Suitable for withstanding surge voltage.
- Suitable for lead free soldering.
- RoHS compliant & Halogen Free.
- Meet AEC-Q200

APPLICATION

- Power supply.
- Automotive industry.
- Digital meter, Consumer electronics, M/B.
- LED Lighting.
- Industry control board.

PART NUMBER

FNF	25	J	P	-	103_	-	M
Type □□□□	Size □□	Tolerance □	Packing □	Watt □	R Value □□□□	TCR	Special Code
FNF Thick Film Anti-Surge	03 0603 05 0805 06 1206 12 1210 20 2010 25 2512	J = ± 5% K = ± 10% L = ± 15% M = ± 20%	T = Paper tape – 5 Kpcs V = Paper tape – 10 Kpcs W = Paper tape – 20 Kpcs P = Plastic tape – 4 Kpcs X = Plastic tape – 8 Kpcs Y = Plastic tape – 16Kpcs	"-" Standard	XXXX >=1R 1% 4 digit 5% 3 digit ("_" means a blank)	No special code- Null special code- "-"	"Null" Standard M: Meet AEC-Q200

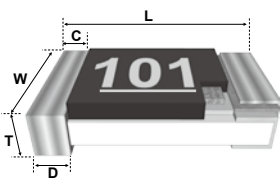
RATING

Type	Normal Type Power Rating @ 70°C	Max. RCWW	Max. Overload Voltage	Resistance Tolerance (%)	Temperature Coefficient of Resistance (ppm/°C)	Resistance Range		Standard Resistance Values
						Min.	Max.	
FNF03 0603	1/10W	50V	100V					
FNF05 0805	1/8W	150V	300V	± 5%(J)				
FNF06 1206	1/4W	200V	400V	± 10%(K)	± 100	1Ω	1MΩ	E-24
FNF12 1210	1/3W	200V	400V	± 15%(L)				
FNF20 2010	3/4W	200V	400V	± 20%(M)				
FNF25 2512	1W	200V	400V					

Note :

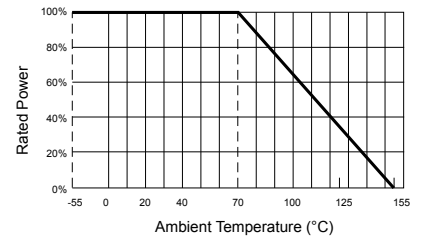
• RCWW = (P × R)^{1/2} or Max. RCWW listed above, whichever is lower. (RCWW : Rated Continue Working Voltage(V) · P : Rated Power(W) · R : Resistance Value(Ω))

DIMENSIONS



Size	unit: mm				
	L	W	C	D	T
0603	1.60 ± 0.10	0.80 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	0.45 ± 0.10
0805	2.00 ± 0.10	1.25 ± 0.10	0.40 ± 0.20	0.40 ± 0.20	0.50 ± 0.10
1206	3.10 ± 0.10	1.60 ± 0.10	0.50 ± 0.25	0.50 ± 0.25	0.55 ± 0.10
1210	3.10 ± 0.10	2.60 ± 0.10	0.50 ± 0.25	0.50 ± 0.25	0.55 ± 0.10
2010	5.00 ± 0.20	2.50 ± 0.20	0.60 ± 0.25	0.60 ± 0.25	0.60 ± 0.10
2512	6.40 ± 0.20	3.20 ± 0.20	0.60 ± 0.25	0.90 ± 0.25	0.60 ± 0.15

POWER DE-RATING CURVE

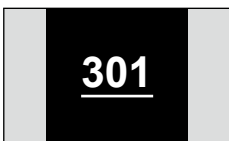


MARKING/SOLDERING

Resistance value identify

E24 ± 5% : 3 Digits marking with underline to identify the resistance value

0603/0805/1206/1210/2010/2512



301 → 30 × 10¹ = 300Ω

SURGE PERFORMANCE

