

Thick Film Chip Attenuators

NFA Series

FEATURES

- HIGH FREQUENCY (UP TO 3GHz) PERFORMANCE
- SMALL 0404 SPACE SAVING SMT PACKAGE
- LOWER PLACEMENT COST (SINGLE COMPONENT RATHER THAN THREE DECRETE RESISTORS)
- BOTH FLOW AND REFLOW SOLDERING APPLICABLE

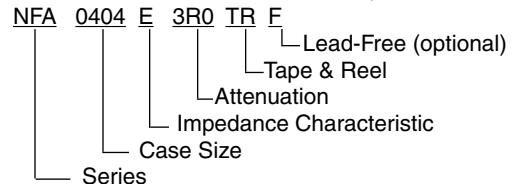


SPECIFICATIONS

Part Number	Power Rating (Package)	Temperature Range	Impedance Characteristic	Voltage Standing Wave Ratio	Frequency Range	Attenuation Value	Attenuation Tolerance
NFA0404E0R0TR	0.1W	-40°C ~ +125°C	50 Ω	1.1 max.	DC ~ 3.0GHz	0.0dB	± 0.1dB
NFA0404E0R5TR						0.5dB	
NFA0404E1R0TR						1.0dB	
NFA0404E1R5TR						1.5dB	
NFA0404E2R0TR						2.0dB	± 0.3dB
NFA0404E3R0TR						3.0dB	
NFA0404E4R0TR						4.0dB	
NFA0404E5R0TR						5.0dB	
NFA0404E6R0TR						6.0dB	
NFA0404E7R0TR						7.0dB	
NFA0404E8R0TR						8.0dB	± 0.4dB
NFA0404E9R0TR						9.0dB	
NFA0404E100TR						10dB	
NFA0404E110TR						11dB	
NFA0404E120TR						12dB	± 0.8dB
NFA0404E130TR						13dB	
NFA0404E140TR						14dB	
NFA0404E150TR						15dB	± 1.0dB
NFA0404E160TR						16dB	
NFA0404E170TR						17dB	
NFA0404E180TR						18dB	± 2.0dB
NFA0404E190TR						19dB	

Description	Performance		
	0.5 ~ 2dB	3dB ~ 5dB	6dB ~ 20dB
Insulation Resistance	100Meg ohms minimum		
Resistance to Solder Heat (260°C for 5 sec.)	± 0.1dB	± 0.2dB	± 0.3dB
Temperature Cycling (5 cycles -55°C ~ +125°C)			
Endurance at 85°C (after 1000Hrs)			

PART NUMBERING SYSTEM



NIC COMPONENTS

www.niccomp.com

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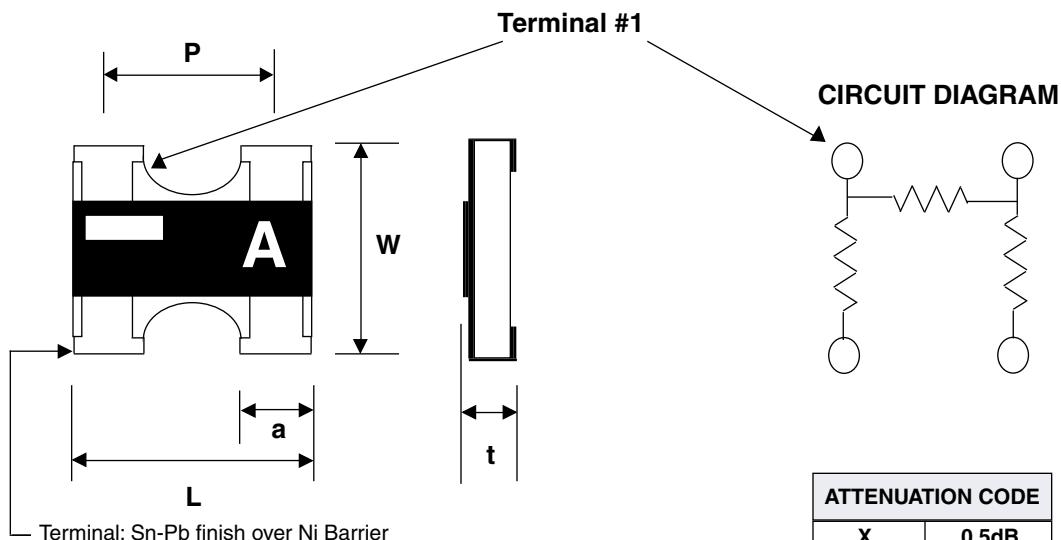
www.lowESR.com

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www.RFpassives.com

DIMENSIONS (mm)

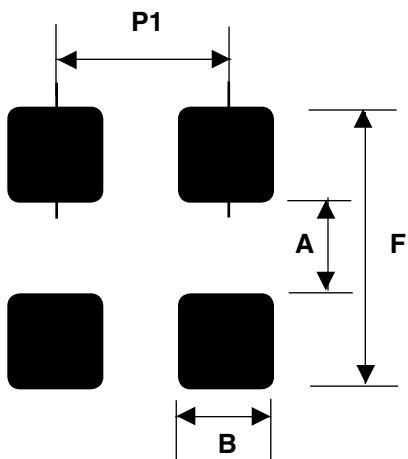
L	W	P	t	a
1.0 ± 0.10	1.0 ± 0.10	0.65	0.35 ± 0.05	0.33 ± 0.05



Terminal: Sn-Pb finish over Ni Barrier
 Body: Alumina
 Element: Thick Film (RuO₂)

LAND PATTERN DIMENSIONS (mm)

A	B	F	P1
0.5	0.45	1.5	0.65



ATTENUATION CODE	
X	0.5dB
1	1.0dB
Y	1.5dB
2	2dB
3	3dB
4	4dB
5	5dB
6	6dB
7	7dB
8	8dB
A	10dB
B	11dB
C	12dB
D	13dB
E	14dB
F	15dB
G	16dB
H	17dB
J	18dB
K	19dB
L	20dB