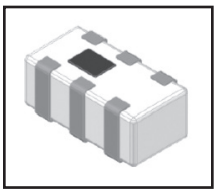
NGFL Series
Multilayer Chip Low Pass Filters

ROHS/REACH COMPLIANT HALOGEN FREE

NIC COMPONENTS Performance Passives By Design

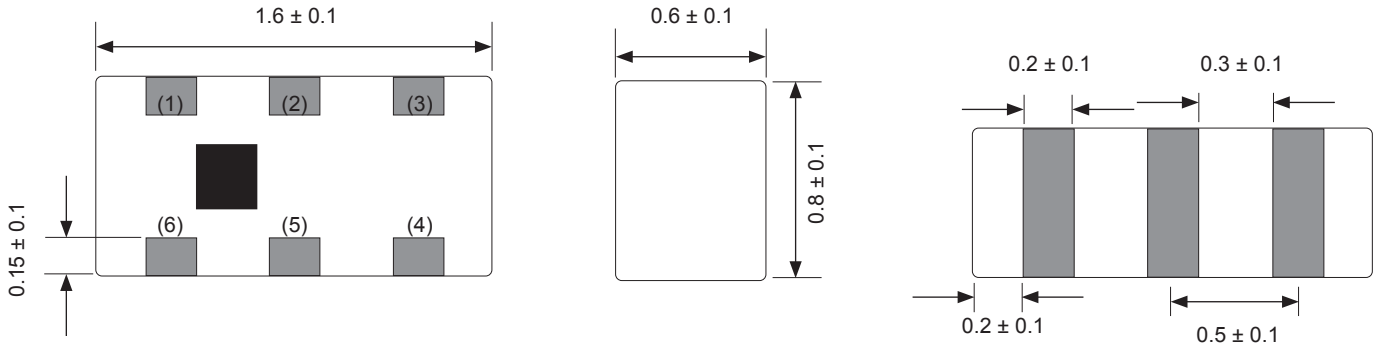


FEATURES
- LOW INSERTION LOSS
- HIGH ATTENTUATION
- SMALL SIZE & LOW PROFILE LTCC CONSTRUCTION
- TAPED AND REELED FOR AUTOMATIC INSERTION

CHARACTERISTICS

Case Code	0603
Center Frequency Ranges	2450 MHz
Operating Temperature Range	-40°C ~ +85°C
Bandwidth	f_o ± 50MHz
Max. IL in BW (@25°C)	0.37dB
Max. IL in BW (@-40°C ~ +85°C)	0.40dB
Attenuation	27.0dB min at 4800 ~ 5000MHz 25.0dB min. at 7200 ~ 7500MHz
VSWR in BW	1.7:1 max.
Ripple in BW	0.20dB max.
Power Capacity	3.0W max.
Characteristic Impedance (nom.)	50Ω

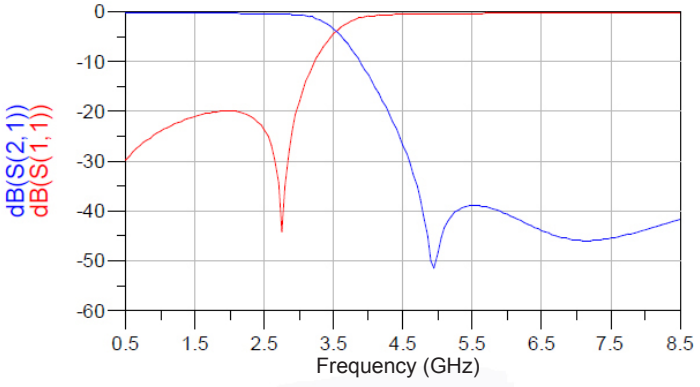
COMPONENT LAYOUT AND DIMENSIONS (mm)



PIN OUT

NGFL0603	(1)	(2)	(3)	(4)	(5)	(6)
Style B	In	Ground	Out	NC	Ground	NC

PERFORMANCE CURVES

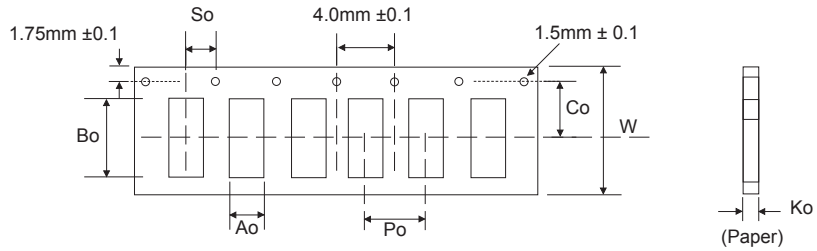


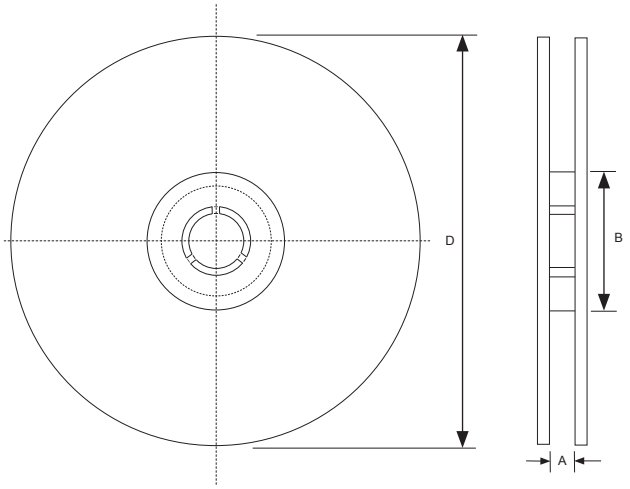
PART NUMBER SYSTEM

NGFL 0805BG 2R450G 050 TR F

- F — RoHS Compliant
- TR — Packaging: TR = Tape & Reel
- 050 — Bandwidth Code
- 2R450G — Frequency Code (Ghz): "R" indicates decimal
- 0805BG — Style & Performance Codes (see dimensions and part number tables for details)
- NGFL — Series

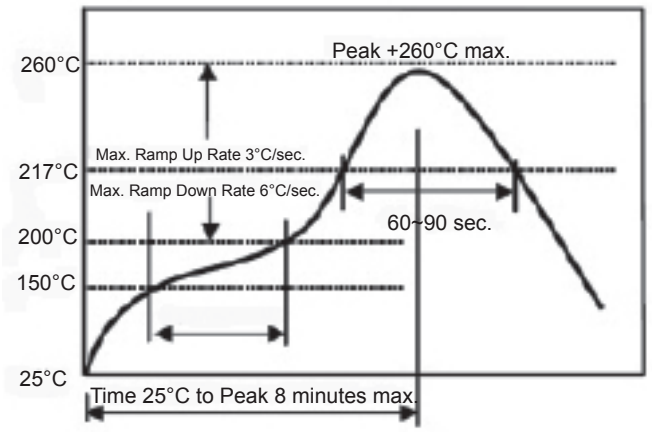
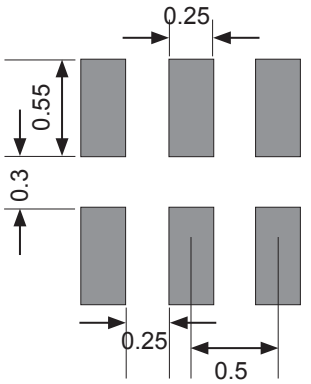
Case Size	CARRIER TAPING DIMENSIONS (mm) AND REEL QUANTITY									
	Tape	Ao	Bo	Po	So	Co	Ko	t	W	Qty
NGFL0603	Paper	1.00	1.80	4.0	2.0 ±0.05	3.5 ± 0.1	0.75 max.	-	8.0 ± 0.3	4,000





Tape Width	REEL DIMENSIONS (mm)		
	A(mm)	B(mm)	D(mm)
NGFL0603	9.0 ± 1.5	58 ± 2.0	178 ± 2.0

REFLOW SOLDERING PROFILE



LAND PATTERN DIMENSIONS (mm)