

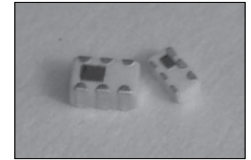
FEATURES

- 50Ω & 100Ω IMPEDANCE OPTIONS
- EXCELLENT AMPLITUDE & PHASE BALANCE
- INTERNAL SHIELDING
- SMALL SIZE & LOW PROFILE LTCC CONSTRUCTION
- TAPED AND REELED FOR AUTOMATIC INSERTION

**RoHS
Compliant**

includes all homogeneous materials

*See Part Number System for Details



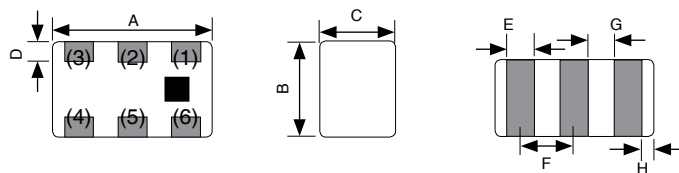
CHARACTERISTICS

Case Code	NGB0603C	NGB0805C
Center Frequency Ranges	2450 MHz ~ 5400 MHz	2400 MHz
Operating Temperature Range	-40°C ~ +85°C	
Balanced Port Impedance	50Ω	
Unbalanced Port Impedances	50Ω, 100Ω	
Resistance to Solder Heat	+260°C for 10 seconds	

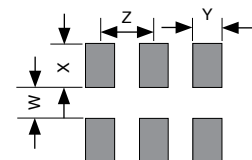
DIMENSIONS (mm)

Case Code	DIMENSIONS								LAND PATTERNS			
	A	B	C	D	E	F	G	H	W	X	Y	Z
NGD0603C	1.6 ± 0.1	0.8 ± 0.1	0.6 ± 0.1	0.15 ± 0.1	0.2 ± 0.1	0.5 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.3	0.55	0.25	0.5
NGD0805C	2.0 ± 0.15	1.2 ± 0.15	0.95 ± 0.1	0.2 ± 0.1	0.3 ± 0.15	0.65 ± 0.1	-	0.2 ± 0.1	0.75	0.5	0.35	0.65

COMPONENT LAYOUT (in mm)



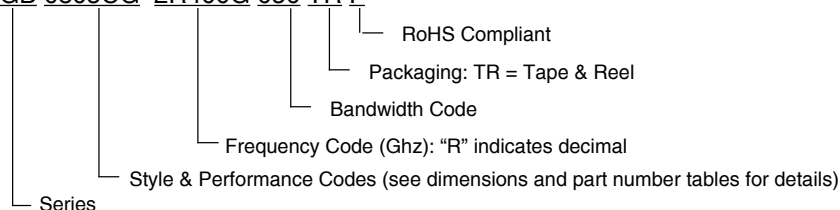
LAND PATTERNS (in mm)



Pin Configuration	(1)	(2)	(3)	(4)	(5)	(6)
All Sizes	Unbalanced	Ground (DC Feed & RF Ground)	Balanced	Balanced	Ground	NC

PART NUMBER SYSTEM

NGB 0805CG 2R400G 050 TR E



NGB0603C Size

Part Number	Standard Values - Case Size 0603 (1.6 x 0.8 mm)							
	Port Impedance		Center Frequency (MHz)	Insertion Loss.	Balance Port VSWR	Amplitude Difference (dB)	Phase Difference (Deg.)	Power Capacity (mW)
	Unbalanced	Balanced						
NGB0603CG2R450G050TRF	50Ω	50Ω	2450 ± 100	1.2 Max. at 25°C	2.0 Max.	2.0 Max.	180° ± 10°	500mW
				1.3 Max. at -40 to +85°C				
NGB0603CG2R450G100TRF	50Ω	100Ω	2450 ± 100	1.2 Max. at 25°C	2.0 Max.	1.5 Max.	180° ± 10°	500mW
				1.3 Max. at -40 to +85°C				
NGB0603CG2R500G100TRF	50Ω	100Ω	2500 ± 200	1.2 Max. at 25°C	2.0 Max.	1.5 Max.	180° ± 10°	500mW
				1.3 Max. at -40 to +85°C				
NGB0603CG5R400G100TRF	50Ω	100Ω	5400 ± 500	1.2 Max. at 25°C	2.0 Max.	2.0 Max.	180° ± 10°	500mW
				1.3 Max. at -40 to +85°C				

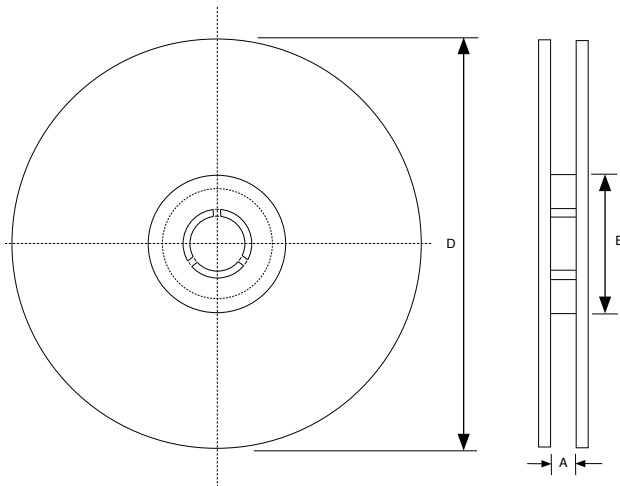
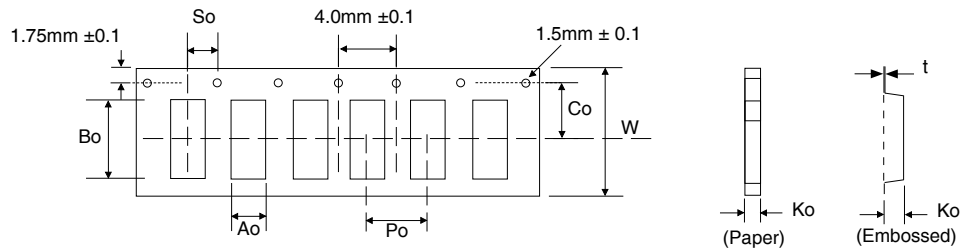
[Customization Available. Please contact NIC for any center frequency and chipset matching requirements]

NGB0805C Size

Part Number	Standard Values - Case Size 0805 (2.0 x 1.2 mm)							
	Port Impedance		Center Frequency (MHz)	Insertion Loss.	Balance Port VSWR	Amplitude Difference (dB)	Phase Difference (Deg.)	Power Capacity (mW)
	Unbalanced	Balanced						
NGB0805CG2R400G050TRF	50Ω	50Ω	2400 ± 100	0.8 Max. at 25°C	2.0 Max.	2.0 Max.	180° ± 10°	500mW
				0.9 Max. at -40 to +85°C				
NGB0805CG2R400G100TRF	50Ω	100Ω	2400 ± 100	0.9 Max. at 25°C	2.0 Max.	2.0 Max.	180° ± 10°	500mW
				1.0 Max. at -40 to +85°C				

[Customization Available. Please contact NIC for any center frequency and chipset matching requirements]

Case Size	CARRIER TAPING DIMENSIONS (mm) AND REEL QUANTITY									
	Tape	Ao	Bo	Po	So	Co	Ko	t	W	Qty
NGB0603C	Paper	1.00	1.80	4.0	2.0 ±0.05	3.5 ± 0.1	0.75 max.	-	8.0 ± 0.3	4,000
NGB0805C	Embossed	1.42	2.25				1.14 max.	0.27 max.		4,000



Tape Width	REEL DIMENSIONS (mm)		
	A(mm)	B(mm)	D(mm)
NGB0402C	9.0 ± 1.5	58 ± 2.0	178 ± 2.0
NGB0603C			
NGB0805C			

REFLOW SOLDERING PROFILE

