

FEATURES

- FAST RESPONSE, HIGH CURRENT (1,000A @ 8/20 μ S)
- CASE SIZE 1812 (4.5MM X 3.2MM X 2.7MM)
- LOW CAPACITANCE AND INSERTION LOSS
- UL LISTED - ISOLATED LOOP CIRCUIT PROTECTORS-COMPONENTS
- COMPATIBLE WITH REFLOW SOLDERING (+260°C)
- RoHS COMPLIANT

RoHS Compliant
includes all homogeneous materials*

*See Part Number System for Details



SPECIFICATIONS

Type	Breakdown Voltage ^{1,2} (100V/S)	Breakdown Voltage Tolerance (V)	Impulse Spark-over Voltage ^{1,2} (1KV/ μ s)	Impulse Discharge Current ³ (8/20 μ s)	Insulation Resistance	Cap. (1MHz, 0.5VDC)	Arc Voltage 1A	Application	Circuit
NGTA1812N151TR1F	150V	105 ~ 195	$\leq 650V$	1,000A	$\geq 1G\Omega @ 50V$	$\leq 1pF$	~ 8V	Coaxial	1 2
NGTA1812N201TR1F	200V	140 ~ 260	$\leq 750V$		$\geq 1G\Omega @ 100V$		~8V	RS485 RS232 RS422	1 2
NGTA1812N301TR1F	300V	210 ~ 390	$\leq 750V$		~15V		DC12V AC24V	1 2	
NGTA1812N401TR1F	400V	340 ~ 550	$\leq 750V$		~15V		xDSL	1 2	

Contact NIC regarding availability of values not shown.

1. Parameters are based on ITU-T K.12
2. The V-T waveform of the DC Breakdown Voltage and Impulse Spark-over Voltage must lie between the shades areas (see graph below)
3. Total Impulse Discharge Current 1,000A @ 8/20 μ s by IEC 61000-4-5, 10 shots.

UL Listing:

NIC COMPONENTS CORP
Isolated Loop Circuit Protectors - Component
RE: QVGQ2.E467518



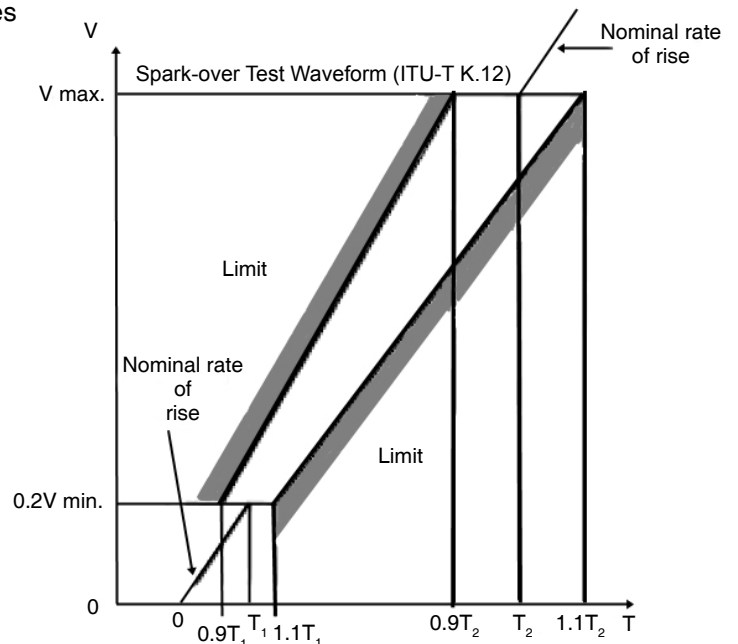
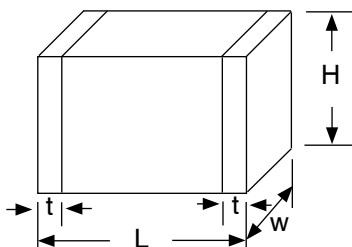
PART NUMBERING SYSTEM

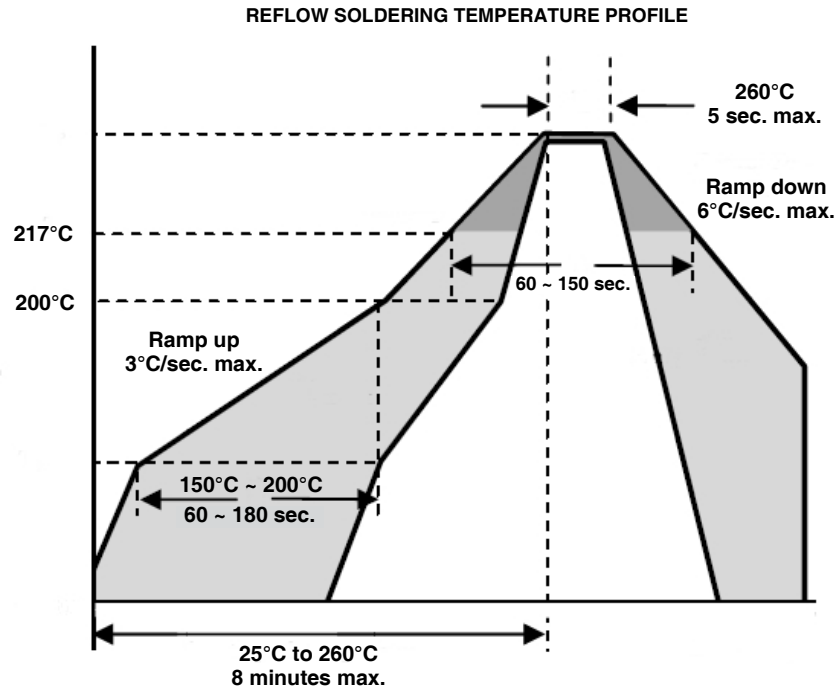
NGTA 1812 N 401 TR 1 F

- Series
- Case Size Code (see dimensions table)
- Tolerance Code (N = $\pm 30\%$, See specifications table)
- Voltage Code: 401 = $40 \times 10^1 = 400$ Volts
- TR = Tape & Reel
- 1 = 1KA Impulse Discharge Current
- RoHS Compliant

DIMENSIONS (mm)

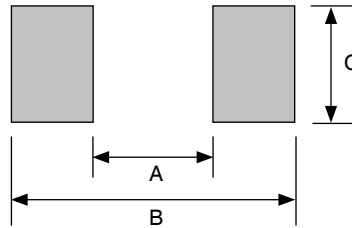
L	W	H	t
4.5 ± 0.3	3.2 ± 0.2	2.7 ± 0.2	0.5 ± 0.1





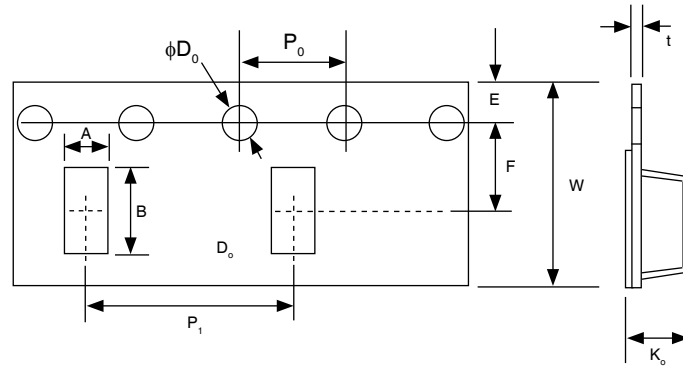
LAND PATTERN DIMENSIONS (mm)

Case Size	A	B	C
1812	3.5	5.5	3.5



EMBOSED PLASTIC CARRIER DIMENSIONS (mm)

Case Size	A	B	ϕD_o	E	F	P_o	P_1	t	K_o	W
1812	3.70 ±0.20	4.70 ±0.20	1.50 ±0.10	1.75 ±0.10	5.50 ±0.10	4.00 ±0.10	8.00 ±0.10	0.4 ±0.20	3.10 ±0.20	12.0 ±0.20



REEL DIMENSIONS (mm) AND QUANTITY

Case Size	D	D1	D2	W1	Qty
1812	$\phi 330$	$\phi 50$	13.0 ± 0.15	16.8 ± 2.0	2,000

