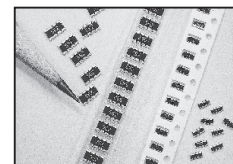


FEATURES

- SUPER MINIATURE SIZE AND LOW PROFILE
- HIGH DENSITY PACKAGING OFFERS SIGNIFICANT SPACE SAVINGS
- LOWER PRODUCTION COSTS WITH LESS PLACEMENT (UP TO 8 RESISTORS IN ONE PACKAGE)
- STANDARD FOOTPRINTS MAKE CONVERSIONS EASY
- BOTH FLOW AND REFLOW SOLDERING APPLICABLE

**RoHS
Compliant**
includes all homogeneous materials

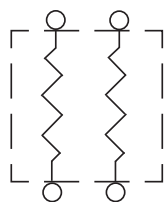
*See Part Number System for Details



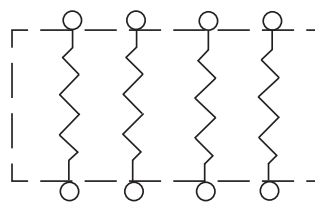
SPECIFICATIONS

Type	NRSNØ4I2		NRSNA4I2		NRSNA6I2	NRSNØ4I4	NRSNA4I4	NRSNØ6I4	NRSNA6I4
Termination Type	Concave		Convex		Convex	Concave	Convex	Concave	Convex
Size W x L (mm)	1.0 x 1.0		1.0 x 1.0		1.6 x 1.6	1.0 x 2.0	1.0 x 2.0	1.6 x 3.2	
No. of Resistors & Circuit	2R Isolated		2R Isolated		2R Isolated	4R Isolated	4R Isolated	4R Isolated	
Power Rating per Resistor @ +70°C	1/16 (.0625W)		1/16 (.0625W)		1/16 (.0625W)	1/16 (.0625W)	1/16 (.0625W)	1/16 (.0625W)	
Resistance Tolerance	J(±5%) G(±2%) F(±1%)	J(±5%) G(±2%) F(±1%)	J(±5%) G(±2%) F(±1%)	J(±5%) G(±2%) F(±1%)	J(±5%) G(±2%) F(±1%)	J(±5%) G(±2%) F(±1%)	J(±5%) G(±2%) F(±1%)	J(5%) G(2%) F(±1%)	
Resistance Range	1Ω ~ 9.1Ω	10Ω ~ 1MΩ	1Ω ~ 9.1Ω	10Ω ~ 1MΩ	10Ω ~ 1MΩ				

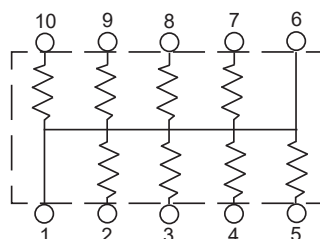
CIRCUIT SCHEMATICS



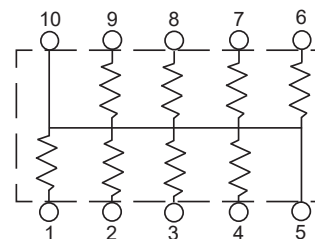
NRSNA4I2/Ø4I2
NRSNA6I2
Circuit Type "I"
Isolated



NRSNA4I4/Ø4I
NRSNA6I/Ø6I & NRSN12I
Circuit Type "I"
Isolated

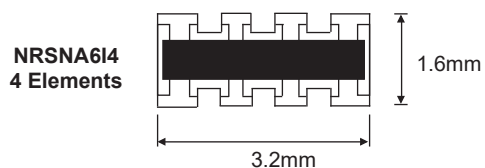
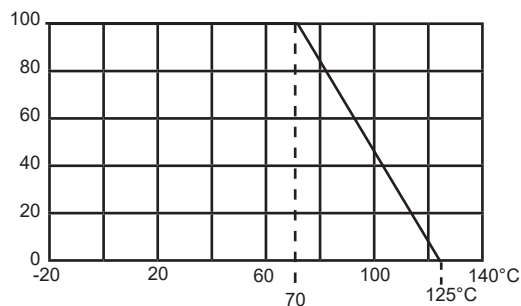


NRSNØ6C8
Circuit Type "C"
Bussed/Common



NRSNØ6D8
Circuit Type "D"
Bussed/Common

Power Derating Curve: For operation above 70°C, power rating must be derated according to the following chart:



ZERO OHM PART DIMENSIONS (mm) (Resistance <0.50 ohms)

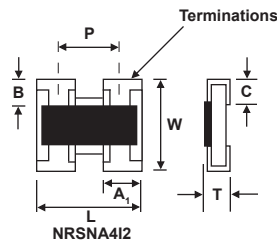
Type	Term. Type	Current Rating (per element)	W	L	P	T	A ₁	A ₂	B	C
NRSNA4I2ZOTRF	Convex	1.0A*	1.00 ± 0.20	1.00 ± 0.10	0.67 nom.	0.30 ± 0.05	0.33 ± 0.10	-	0.15 ± 0.10	0.25 ± 0.10
NRSNØ4I2ZOTRF	Concave	0.5A	1.00 ± 0.20	1.00 ± 0.10	0.50 nom.	0.30 ± 0.10	0.30 ± 0.10	-	0.20 ± 0.10	0.25 ± 0.10
NRSNA6I2ZOTRF	Convex	0.5A	1.6 ± 0.15	1.6 ± 0.15	0.76 nom.	0.45 ± 0.10	0.46 ± 0.10	-	0.30 ± 0.20	0.30 ± 0.10
NRSNA4I4ZOTRF	Convex	1.0A*	1.00 ± 0.20	2.00 ± 0.10	0.50 nom.	0.40 ± 0.10	0.30 ± 0.10	0.40 ± 0.10	0.20 ± 0.10	0.25 ± 0.10
NRSNØ4I4ZOTRF	Concave	1.0A*	1.00 ± 0.20	2.00 ± 0.10	0.50 nom.	0.40 ± 0.10	0.30 ± 0.10	-	0.15 ± 0.10	0.25 ± 0.10
NRSNA6I4ZOTRF	Convex	1.0A	1.60 ± 0.15	3.20 ± 0.20	0.80 nom.	0.50 ± 0.10	0.45 ± 0.10	0.60 ± 0.10	0.30 ± 0.15	0.30 ± 0.15
NRSNØ6I4ZOTRF	Concave	1.0A	1.60 ± 0.15	3.20 ± 0.20	0.80 nom.	0.55 ± 0.10	0.50 ± 0.10	-	0.35 ± 0.15	0.45 ± 0.15
NRSN12I4ZOTRF	Concave	1.5A	3.00 ± 0.20	5.08 ± 0.20	1.27 ± 0.20	0.70 ± 0.20	0.80 ± 0.20	-	0.60 ± 0.20	0.60 ± 0.20

*1.0A rating effective for production starting November 2015

COMPONENT MARK

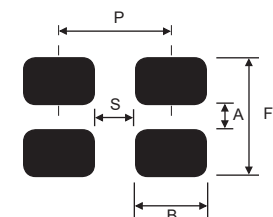
PART DIMENSIONS (mm)

Type	W	L	P	T	A ₁	A ₂	B	C
NRSNA4I2	1.00 ± 0.20	1.00 ± 0.10	0.67 nom.	0.30 ± 0.05	0.33 ± 0.10	-	0.15 ± 0.10	0.25 ± 0.10
NRSNØ4I2	1.00 ± 0.20	1.00 ± 0.10	0.50 nom.	0.30 ± 0.10	0.30 ± 0.10	-	0.20 ± 0.10	0.25 ± 0.10
NRSNA6I2	1.6 ± 0.15	1.6 ± 0.15	0.76 nom.	0.45 ± 0.10	0.46 ± 0.10	-	0.30 ± 0.20	0.30 ± 0.10
NRSNA4I4	1.00 ± 0.20	2.00 ± 0.10	0.50 nom.	0.40 ± 0.10	0.30 ± 0.10	0.40 ± 0.10	0.20 ± 0.10	0.25 ± 0.10
NRSNØ4I4	1.00 ± 0.20	2.00 ± 0.10	0.50 nom.	0.40 ± 0.10	0.30 ± 0.10	-	0.15 ± 0.10	0.25 ± 0.10
NRSNA6I4	1.60 ± 0.15	3.20 ± 0.20	0.80 nom.	0.50 ± 0.10	0.45 ± 0.10	0.60 ± 0.10	0.30 ± 0.15	0.30 ± 0.15
NRSNØ6I4	1.60 ± 0.15	3.20 ± 0.20	0.80 nom.	0.55 ± 0.10	0.50 ± 0.10	-	0.35 ± 0.15	0.45 ± 0.15
NRSNØ6C8	3.10 ± 0.20	6.40 ± 0.20	1.27 ± 0.20	0.60 ± 0.20	1.00 ± 0.20	-	0.55 ± 0.20	0.50 ± 0.20
NRSNØ6D8	3.10 ± 0.20	6.40 ± 0.20	1.27 ± 0.20	0.60 ± 0.20	1.00 ± 0.20	-	0.55 ± 0.20	0.50 ± 0.20
NRSN12I4	3.00 ± 0.20	5.08 ± 0.20	1.27 ± 0.20	0.70 ± 0.20	0.80 ± 0.20	-	0.60 ± 0.20	0.60 ± 0.20



LAND PATTERN DIMENSIONS (mm)

Type	Reflow Soldering					Flow Soldering			
	A	B	P	S	F	A	B	P	F
NRSN04I2	0.50	0.28	0.50	0.34	2.00	-	-	-	-
NRSNA4I2	0.50	0.33	0.67	0.34	2.00	-	-	-	-
NRSNA6I2	0.80	0.45	0.80	0.35	2.40	-	-	-	-
NRSN04I4	0.50	0.28	0.50	0.22	2.00	-	-	-	-
NRSNA4I4	0.50	0.28	0.50	0.22	2.00	-	-	-	-
NRSN06I4J	1.00	0.40	0.80	0.40	2.60	0.7 ~ 0.9	0.3 ~ 0.35	0.8	4.6 ~ 5.6
NRSNA6I4J	1.00	0.40	0.80	0.40	2.60	0.7 ~ 0.9	0.3 ~ 0.35	0.8	4.6 ~ 5.6
NRSN06C8	2.20	0.50	1.27	-	4.20	1.9 ~ 2.1	0.5 ~ 0.55	1.27	5.6 ~ 6.2
NRSN06D8	2.20	0.50	1.27	-	4.20	1.9 ~ 2.1	0.5 ~ 0.55	1.27	5.6 ~ 6.2
NRSN12I4	2.20	0.790	1.27	-	4.20	1.0 ~ 1.2	0.4 ~ 0.45	1.27	5.6 ~ 6.2



NRSN0I2, NRSNA4I2, NRSNA6I2

REEL DIMENSIONS (mm)

Type	A	B	C	D	E	W	Qty/Reel
NRSN04I2 NRSNA4I2 NRSN04I4 NRSNA4I4	$\phi 180$ -4.0/+3.0	$\phi 60$ -4.0/+3.0	$\phi 13.0$ ± 2.0	$\phi 21.0$ ± 1.0	2.0 ± 0.5	8.0 ± 0.2	10,000
NRSNA6I2						9.0 ± 1.0	5,000
NRSN06I4 NRSNA6I4						10 ± 1.0	5,000
NRSN06C8 NRSN06D8 NRSN12I4						14 ± 2.0	4,000

