RESISTORS • CAPACITORS • COILS • DELAY LINES

THICK FILM CHIP ARRAYS - CONVEX

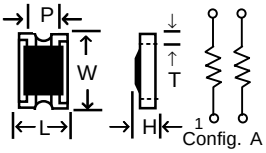
SMN ARRAY SERIES

FEATURES

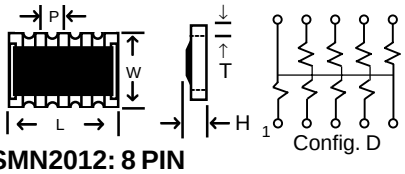
- ❒ Internationally popular convex termination pads (concave termination style also available--see CN series)
- ❒ Exceptional performance, low cost!
- ❒ Lead-free nickel barrier terminations*
- ❒ 2 to 9 resistors per array reduces mounting costs
- ❒ ***New!*** 0404, 0804 and 1506 sizes offer space savings
- ❒ Scalloped edge design available
- ❒ Zero ohm jumper array also available

***** effective mfg lots after July '04

SMN0404: 4 PIN

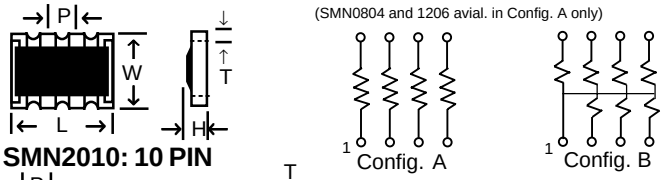


SMNN1206: 10 PIN NARROW

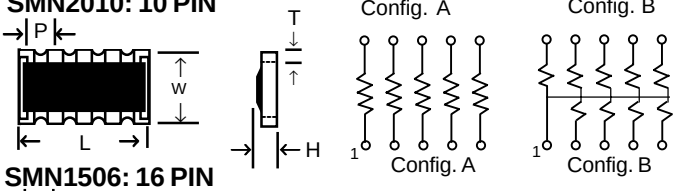


SMN0804, SMN1206, SMN2012: 8 PIN

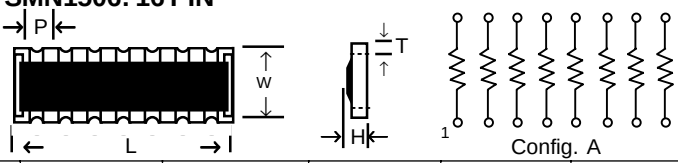
(SMN0804 and 1206 avial. in Config. A only)



SMN2010: 10 PIN



SMN1506: 16 PIN



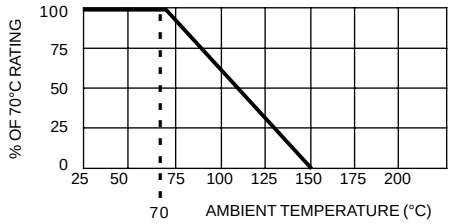
SPECIFICATIONS

Resistance Range	10Ω to 1M (extended range available)
Standard Tolerance	±5% (1%and 2% available)
Marking	Available on most sizes (consult factory)
Tape & Reel	8mm tape SMN0404,0804,1206 12mm 2010, 2012

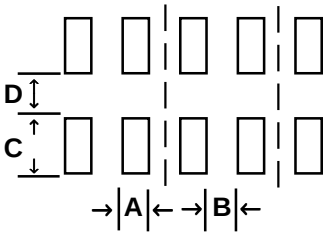
RCD Type	Config	Wattage per Resis.Element	Working Voltage	Temp. Coefficient	L ±.01 [.25]	W±.008 [.2]	P±.008 [.2]	H±.006 [.15]	T typ.
SMN0404	A	62mW	25V	250ppm/°C	.039 [1]	.039 [1]	.025 [.65]	.016 [.4]	.010 [.25]
SMN0804	A	62mW	25V	250ppm/°C	.079 [2]	.039 [1]	.02 [.5]	.016 [.4]	.010 [.25]
SMN1206	A	62mW	50V	200ppm/°C	.126 [3.2]	.063 [1.6]	.0315 [.8]	.02 [.5]	.010 [.25]
SMNN1206	D	31mW	25V	200ppm/°C	.126 [3.2]	.063 [1.6]	.025 [.64]	.02 [.5]	.010 [.25]
SMN1506	A	62mW	25V	200ppm/°C	.154 [3.9]	.063 [1.6]	.02 [.5]	.018 [.45]	.012 [.3]
SMN2010	A	100mW	50V	200ppm/°C	.200 [5.08]	.100 [2.54]	.040 [1.0]	.024 [.6]	.010 [.25]
SMN2010	B	55mW	50V	200ppm/°C	.200 [5.08]	.100 [2.54]	.040 [1.0]	.024 [.6]	.010 [.25]
SMN2012	A	125mW	50V	200ppm/°C	.200 [5.08]	.122 [3.10]	.050 [1.27]	.024[.6]	.012 [.30]
SMN2012	B*	62mW	50V	200ppm/°C	.200 [5.08]	.122 [3.10]	.050 [1.27]	.024 [.6]	.012 [.30]

* Information is preliminary (consult factory for availability)

DERATING



SUGGESTED PAD LAYOUT



Type	A	B	C	D
SMN0404 (4-pin)	.014 [.356]	.011 [.279]	.020 [.5]	.020 [.5]
SMN0804 (8-pin)	.012 [.3]	.008 [.2]	.020 [.5]	.020 [.5]
SMN1206 (8-pin)	.018 [.45]	.014 [.35]	.032 [.8]	.036 [.9]
SMNN1206 (10-pin)	.014 [.36]	.011 [.28]	.032 [.8]	.036 [.9]
SMN1506 (16-pin)	.012 [.3]	.008 [.2]	.032 [.8]	.039 [1]
SMN2010 (10-pin)	.022 [.55]	.018 [.45]	.040 [1.02]	.060 [1.52]
SMN2012 (8-pin)	.032 [.82]	.018 [.45]	.045 [1.14]	.080 [2.03]

PERFORMANCE CHARACTERISTICS

Operating Temp. Range	-55°C to +150°C
Short time Overload (2.5X rated W, 5 sec)	±2%+0.1Ω max.
Resistance to Solder Heat (260°C, 10 sec)	±1%+0.1Ω max.
Moisture Res. (90-95% RH, 40°C,100 hrs)	±3%+0.1Ω max.
High Temp. Exposure (125°C, 100 hrs)	±1%+0.1Ω max.
Load Life (1000 hrs at rated W)	±3%+0.1Ω max.
Insulation Resistance	10,000 Megohm

P/N DESIGNATION:

SMN2010 A - 102 - J T

RCD Type

Config: A, B, D

Resis.Code 1%: 3 signif. figures & multiplier,
e.g. 10R0=10Ω, 1000=100Ω, 1001=1KΩ, etc.
Resis.Code 2%-5%: 2 signif. figures & multiplier,
e.g. 100=10Ω, 101=100Ω, 102=1KΩ, etc.

Tolerance Code: J=5%(std), G=2%, F=1%

Packaging: B = Bulk, T = Tape & Reel

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