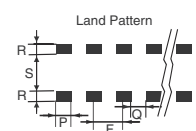
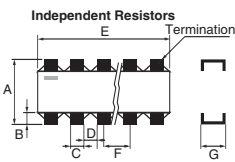


VISHAY / SFERNICE High Precision Resistor Arrays

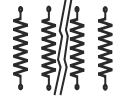


PRA 100, 182 SERIES

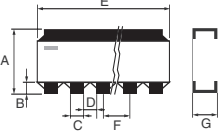
- Features:**
- 100mW Resistor
 - Packaged in wafer - Tape and reel available
 - High stability passivated nichrome resistive layer
 - 0.02% on ratio 1000h at Pn at 70°C
 - Tight TCR (10 ppm/°C) and TCR tracking (to 1ppm/°C)
 - Very low noise <35dB and voltage coefficient <.01ppm/V
 - Ratio tolerance from .1% to .01% (R±20R)
 - Pre-tinned terminations over nickel barrier
 - Also available: One common point N Resistor
 - Absolute Tolerance: .1%
 - Ratio Tolerance: .05%



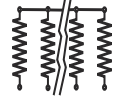
Electrical Diagram



One Common Point N Resistors



Electrical Diagram



DIM	PRA 100		PRA 182	
	mm	mil	mm	mil
A	1.6 +2/-1	63	3 +2/-1	118
B	.4 ±.2	16	.4 ±.2	16
C	.65 ±.15	25.5	1.3 +.35/- .15	51
D	.25	10	.25	10
E	E=(NXF)±.2mm		E=(NXF)±8mil	
F	1	40	1.82	72
G	.38 +.02/-0	15	.38 +.2/-0	15
P	.7	27.5	1.52	59.8
Q	.3	12	.3	12
R	1	40	1	40
S	.6	23.5	1.8	70.8

MOUSER STOCK NO.	Vishay Part No.	Value Ω	Price Each			
			1	25	50	100
71-PRA100I2-1KBWN	PRA100I2-1KBWN	1K	5.67	4.93	4.69	4.44
71-PRA100I2-5KBWN	PRA100I2-5KBWN	5K	5.67	4.93	4.69	4.44
71-PRA100I2-10KBWN	PRA100I2-10KBWN	10K	5.67	4.93	4.69	4.44
71-PRA100I2-50KBWN	PRA100I2-50KBWN	50K	5.67	4.93	4.69	4.44
71-PRA100I2-100KBWN	PRA100I2-100KBWN	100K	5.67	4.93	4.69	4.44
71-PRA100I4-1KBWN	PRA100I4-1KBWN	1K	10.02	8.71	8.28	7.84
71-PRA100I4-5KBWN	PRA100I4-5KBWN	5K	10.02	8.71	8.28	7.84
71-PRA100I4-10KBWN	PRA100I4-10KBWN	10K	10.02	8.71	8.28	7.84
71-PRA100I4-50KBWN	PRA100I4-50KBWN	50K	10.02	8.71	8.28	7.84
71-PRA100I4-100KBWN	PRA100I4-100KBWN	100K	10.02	8.71	8.28	7.84
71-PRA182I2-1KBWN	PRA182I2-1KBWN	1K	7.61	6.62	6.29	5.96
71-PRA182I2-10KBWN	PRA182I2-10KBWN	10K	7.61	6.62	6.29	5.96
71-PRA182I2-100KBWN	PRA182I2-100KBWN	100K	7.61	6.62	6.29	5.96
71-PRA182I4-1KBWN	PRA182I4-1KBWN	1K	13.44	11.69	11.10	10.52
71-PRA182I4-10KBWN	PRA182I4-10KBWN	10K	13.44	11.69	11.10	10.52
71-PRA182I4-100KBWN	PRA182I4-100KBWN	100K	13.44	11.69	11.10	10.52

VISHAY / SFERNICE High Precision Wraparound Thin Film Chip Resistors

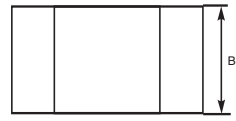
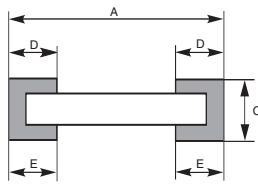


P SERIES

- Features:**
- Load Life Stability at ±70°C for 2000 hours: .1% under Pn/.05% under Pd
 - Low Temperature Coefficient: ±10ppm/°C
 - Very Low Noise <35dB and Voltage Coefficient <.01ppm/V
 - Resistance Range: 10Ω to 50MΩ depending on size
 - Tolerances to ±.1%
 - In Lot Tracking ≤5ppm/°C
 - Termination: tin/silver (tin/lead available)
 - Short Circuits (Jumpers) r<50mR, I<2A



Case Size	DIMENSIONS mm (in)				Power Rating		Limiting Element Voltage V	Resistance Range Ω
	A	B	C	D/E	Pn	Pd		
	Tol. ±.152 (.006)	Tol. ±.127 (.005)	Tol. ±.127 (.005)	Tol. ±.13(.005)				
0603	1.52 (.06)	.75 (.03)	.5 (.02)	.38 (.015)	125	50	50	10Ω to 260Ω
0805	1.91 (.075)	1.27 (.05)	.5 (.02)	.38 (.015)	200	100	50	10Ω to 300Ω
1206	3.06 (1.20)	1.60 (.063)	.5 (.02)	.38 (.015)	330	150	75	10Ω to 1MΩ



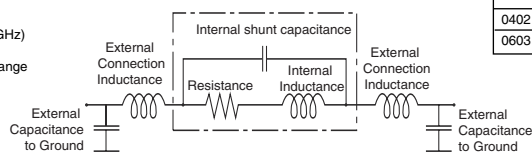
MOUSER STOCK NO.	Vishay Part No.	Value Ω	Tolerance	Price Each			
				1	25	50	100
71-P0603Y1001BN	P0603Y1001BN	1K	0.1%	4.27	3.71	3.52	3.34
71-P0603Y2001BN	P0603Y2001BN	2K	0.1%	4.27	3.71	3.52	3.34
71-P0603Y1002BN	P0603Y1002BN	10K	0.1%	4.27	3.71	3.52	3.34
71-P0603Y1003BN	P0603Y1003BN	100K	0.1%	4.27	3.71	3.52	3.34
71-P0805Y1001BN	P0805Y1001BN	1K	0.1%	4.27	3.71	3.52	3.34
71-P0805Y2001BN	P0805Y2001BN	2K	0.1%	4.27	3.71	3.52	3.34
71-P0805Y1002BN	P0805Y1002BN	10K	0.1%	4.27	3.71	3.52	3.34
71-P0805Y1003BN	P0805Y1003BN	100K	0.1%	4.27	3.71	3.52	3.34
71-P1206Y1001BN	P1206Y1001BN	1K	0.1%	4.44	3.86	3.67	3.48
71-P1206Y1002BN	P1206Y1002BN	10K	0.1%	4.44	3.86	3.67	3.48
71-P1206Y2002BN	P1206Y2002BN	20K	0.1%	4.44	3.86	3.67	3.48
71-P1206Y1003BN	P1206Y1003BN	100K	0.1%	4.44	3.86	3.67	3.48
71-P1206Y1004BN	P1206Y1004BN	1M	0.1%	4.44	3.86	3.67	3.48

Case Size	EXTENDED OHMIC VALUE RANGE		
	Tightest Tol. %	Extended Ohmic Range	Best TCR (ppm/°C)
0603	.1	300K - 2M	50
0805	.1	500K - 5M	50
1206	.05	1M - 2M	25
	.1	2M - 15M	50

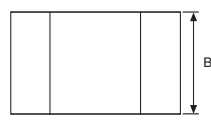
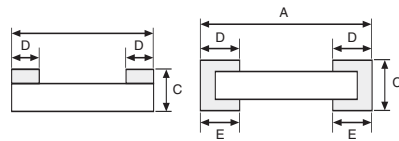
CH SERIES

- Features:**
- Small size, down to 20 by 16mils available
 - Edged trimmed block resistors
 - Pure alumina substrate (99.5%)
 - Small internal reactance (LC down to 1x10-24@20GHz)
 - Tolerance: 1%, 2%, 5%, 10% available
 - TCR: 100 ppm/°C in (-55°C, +155°C) temperature range
 - Ohmic Range: 10Ω to 500Ω

Typical High Frequency Performance Electrical Model



Case Size	DIMENSIONS mm (in)				Power Rating Pn mW	Limiting Element Voltage (V)
	A	B	C	D/E		
	Tol. ±.1 (.004)	Tol. ±.1 (.004)	Tol. ±.127 (.005)	Tol. ±.13(.005)		
0402	1 (.04)	.6 (.023)	.5 (.02)	.38 (.015)	50	37
0603	1.52 (.06)	.75 (.03)	.5 (.02)	.38 (.015)	125	50



MOUSER STOCK NO.	Vishay Part No.	Value Ω	Price Each			
			1	25	50	100
71-CH0402-10RJN	CH0402-10RJN	10	3.73	3.24	3.08	2.92
71-CH0402-50RJN	CH0402-50RJN	50	3.73	3.24	3.08	2.92
71-CH0402-100RJN	CH0402-100RJN	100	3.73	3.24	3.08	2.92
71-CH0402-250RJN	CH0402-250RJN	250	3.73	3.24	3.08	2.92
71-CH0603-50RJN	CH0603-50RJN	50	3.73	3.24	3.08	2.92
71-CH0603-75RJN	CH0603-75RJN	75	3.73	3.24	3.08	2.92
71-CH0603-100RJN	CH0603-100RJN	100	3.73	3.24	3.08	2.92
71-CH0603-250RJN	CH0603-250RJN	250	3.73	3.24	3.08	2.92

