



## **Bondable Resistors for Transducers - Selection Chart**

GAGE PATTERN AND DESIGNATION				DIMENSIONS		
Actual size shown on right		RESISTANCE	PATTE	PATTERN MATE		TRIX
Insert Desired S-T-C No. in Spaces Marked XX. See Note 1		IN OHMS	Length	Width	Length	Width
	A02			F	NO2	
N2B-TR-A02-00150		15	0.24	0.13	0.30	0.19
N2B-TR-A02-00175		17.5	6.1	3.3	7.6	4.8
N2B-TR-A02-00200		20	0.1			4.0
N2B-TR-A02-00250		25		ı	N06	
N2B-TR-A02-00300		30	0.19	0.13	0.24	0.18
N2B-TR-A02-00400		40	4.8	3.3	6.1	4.6
N2B-TR-A02-00600		60	A Pattern fixed	resistors are a	available in two s	izes and several
N2B-TR-A02-00650		65	standard resista	nce values as	shown. Custom i	esistance values
N2B-TR-A02-00700		70	are available for	r a small set-u	charge and 50	O-piece minimum
N2T-TR-A02-00100		10	order.			
N2T-TR-A02-00125		12.5	Resistance toler	ance is $\pm$ 1% at	+75°F [+24°C].	
N2T-TR-A02-00150		15	Recommended I	Jses:		
N2T-TR-A02-00200		20	<ul> <li>span-shift-vers</li> </ul>	sus-temperature	compensation	
N2T-TR-A02-00225		22.5	<ul> <li>temperature se</li> </ul>	ensing		
N2T-TR-A02-00300		30	Construction			
N2T-TR-A02-00400		40		attern registers	are normally m	anufactured and
N2T-TR-A02-00450		45				plied with a thin
N2T-TR-A02-00500		50	layer of polyimi	de film coverir	ng the grid. Solo	ler tabs are left
N2B-TR-A06-00150		15				e this feature add
N2B-TR-A06-00175		17.5	OPTION E2 to the	ie resistor desig	gnation.	
N2B-TR-A06-00200		20	Examples: N2B-	TR-A06-00200/	E2, N2T-TR-A02-0	00250/E2.
N2B-TR-A06-00250	A06	25	Registance toler	ance on Ontion	E2 versions is ± 1	5% at ±75°E
N2B-TR-A06-00300		30	[+ 24°C].	ance on Option	L2 VE1310113 13 ± 1	.5 /6 at +7 5 T
N2B-TR-A06-00400		40	[+ 24 0].			
N2B-TR-A06-00600		60				
N2B-TR-A06-00650	M	65				
N2B-TR-A06-00700	#11111111111#	70				
N2T-TR-A06-00100		10				
N2T-TR-A06-00125		12.5				
N2T-TR-A06-00150		15				
N2T-TR-A06-00200		20				
N2T-TR-A06-00225		22.5				
N2T-TR-A06-00300		30				
N2T-TR-A06-00400		40				
N2T-TR-A06-00450		45				
N2T-TR-A06-00500		50				
N2A-XX-B31-01250		125	0.25	0.13	0.33	0.18
EA-XX-B31-02500		250	6.4	3.3	8.4	4.6
N2A-XX-B32-01000		100	B Pattern resist	ors are bifilar ac	ljustable types. Tr	ne practical range
EA-XX-B32-02000		200				R <sub>MAX</sub> is nominal
N2A-XX-B34-00700		70				stor Adjustment
EA-XX-B34-01400		140	Instructions).	-	•	-
N2T-TR-B32-00160		16	Recommended I	Jses:		
N2T-TR-B32-00300		30	<ul> <li>span set (EA,</li> </ul>	N2A)		
N2T-TR-B34-00110	<del></del>	11	span-shift-vers	sus-temperature	compensation (N	I2T)
N2T-TR-B34-00220		22		·		

Note 1: All products are RoHS compliant.





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GAGE PATTERN AND DESIGNATION			DIMENSIONS			
Actual size shown on right		ANCE	PATTERN MATRIX			
Insert Desired S-T-C No. in Spaces Marked XX See Note 1		NS MS	Length	Width	Length	Width
N2B-TR-C11-00050 A B C D	Before	After	0.30	0.20	0.34	0.23
N2B-TR-C12-00100	Cut	Cut	7.6	5.1	8.6	5.9
N2B-TR-C12-00200	5	12	C Pattern grid	and adjustable	ladder resistors	are available in
N2B-TR-C13-00400	10	24	various nomina	l resistances adj	ustable to 240%	of the initial value.
N2B-TR-C13-00800	20	48	,	•		nd 20 at 1% (see
	40	96	•	ment Instructions	s).	
	80	192	Recommended			
NOT TO DOLLOWS			•	rsus-temperature		
N2F-TR-D01-00005 N2B-TR-D01-00060	0.		0.35	0.14	0.41	0.20
N2A-XX-D01-00180	18		8.9	3.6	10.4	5.1
EA-XX-D01-00360	36					all, single-network
N2K-XX-D01-00500/DP	50	_	•		bys and resistan	ces (see Resistor
N2K-XX-D01-00750/DP	7	5	Adjustment Inst	ted are nominal t	fully out values	
			Recommended		idily cut values.	
				npensation (N2F	=)	
			<ul> <li>span-shift-ve</li> </ul>	rsus-temperature	e compensation (	(N2B)
			<ul> <li>span set (EA</li> </ul>	, N2A, and N2K)		
N2F-TR-E01-00005	0.	5	0.35	0.30	0.41	0.36
N2A-XX-E01-00060 A B C D E F	6		8.9	7.6	10.4	9.1
N2A-XX-E01-00180	18		E Pattern adju	stable ladder res	sistors are simila	r to the D Pattern
EA-XX-E01-00360 N2K-XX-E01-00500/DP	30		but incorporate	two adjustable	networks on one	matrix to provide
EA-XX-E01-00360 N2K-XX-E01-00500/DP N2K-XX-E01-00750/DP	7:					equired in bridge
BHHJHH	,	,		ero-shift comper	nsation (see Re	sistor Adjustment
			Instructions).	tad are naminal t	fully cut values p	or notwork
			Recommended		iully cut values p	er network.
1 2 3				npensation (N2F	:)	
				ce (EA, N2A, and	,	
N2A-XX-H21-00025	2.	5	0.15	0.29	0.21	3.5
N2A-XX-H21-00060 N2B-TR-H22-00010	6.	0	3.8	7.4	5.3	8.9
			H Pattern resi	stors are adjust	ed upward in re	sistance value by
N2B-TR-H22-00010 " • • • • •	1.	0		•	•	tric pencil eraser.
SP -						lloy, are used for
						ors are typically
<b>`</b>			' '			hm in 1000-ohm
т 🗂 🖫 С			J ,	· •	•	s used for bridge sistor Adjustment
				esistance values	•	notor Aujustinelit
			Recommended			
			bridge balance (H21)			
			<ul> <li>bridge zero-s</li> </ul>	shift compensation	on (H22)	

## **RESISTANCE WIRE**

While wire does not track the temperature of the strain gages as closely as bondable resistors, there are instances where bondable resistors cannot be used due to limited mounting space. Micro-Measurements stocks two types of resistance wire alloys.

CATALOG NO./ WIRE ALLOY	QTY PER SPOOL	RESISTANCE PER FOOT (METER) NOMINAL	TCR [-10° to +50°C]	INSULATION	TEMPERATURE RANGE
137-HWN/Manganin	200ft	14Ω	± 0.0011%/°F	Enamel	+15° to +120°F [-10° to +50°C]
	[61m]	(46Ω)	[± 0.002%/°C]		(up to +175°F [+80°C] if proper aging is done)
142-JWN/Balco	500ft	19Ω	+0.25%/°F	Enamel	−15° to +300°F
	[152 m]	(62Ω)	[+0.45%/°C]		[-10° to +150°C]

Note 1: All products are RoHS compliant.

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Vishay Precision Group

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