Micro-Measurements



Bondable Resistors for Transducers - Selection Chart

GAGE PATTERN AND DESIGNATION			DIMENSIONS					
Actual size shown on right		RESISTANCE	PATTERN		MATRIX			
Insert Desired S-T-C No. in Spaces Marked XX. See Note 1		IN OHMS	Length	Width	Length	Width		
	A02		A02					
N2B-TR-A02-00150		15	0.24	0.13	0.30	0.19		
N2B-TR-A02-00175	nnnn	17.5	6.1	3.3	7.6	4.8		
N2B-TR-A02-00200		20	0.1		A06	9.6		
N2B-TR-A02-00250		25	0.40		1	0.40		
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			available in two s			
N2B-TR-A02-00650		65			shown. Custom r			
N2B-TR-A02-00700		70		r a small set-u	p charge and 500)-piece minimum		
N2T-TR-A02-00100 N2T-TR-A02-00125		10 12.5	order.					
N2T-TR-A02-00125		15	Resistance toler		+75°F [+24°C].			
N2T-TR-A02-00200		20	Recommended l					
N2T-TR-A02-00225		22.5	 span-shift-vers temperature set 		compensation			
N2T-TR-A02-00300		30	• temperature se	ensing				
N2T-TR-A02-00400		40	Construction					
N2T-TR-A02-00450		45			s are normally m			
N2T-TR-A02-00500		50			n but can be sup			
					ng the grid. Sold			
N2B-TR-A06-00150		15			nections. To include	e this feature add		
N2B-TR-A06-00150		17.5	OPTION E2 to the	ne resistor desig	gnation.			
N2B-TR-A06-00200		20	Examples: N2B-	TR-A06-00200/	E2, N2T-TR-A02-0	0250/E2.		
N2B-TR-A06-00250	A06	25	Desistance taler	anaa an Ontian		59/ at 175%		
N2B-TR-A06-00300		30	[+ 24°C].	ance on Option	E2 versions is ± 1	.5% al +75°F		
N2B-TR-A06-00400		40	[+ 24 C].					
N2B-TR-A06-00600		60						
N2B-TR-A06-00650		65						
N2B-TR-A06-00700		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 45						
N2T-TR-A06-00450 N2T-TR-A06-00500		45 50						
			0.05	0.10	0.00	0.10		
N2A-XX-B31-01250 EA-XX-B31-02500		125 250	0.25	0.13	0.33	0.18		
N2A-XX-B31-02500		100	6.4	3.3	8.4	4.6		
EA-XX-B32-01000		200			ljustable types. Th			
N2A-XX-B34-00700		70			0.15 R _{MAX} , where			
EA-XX-B34-01400		140		r to adjustm	ient (see Resis	stor Adjustment		
N2T-TR-B32-00160		16	Instructions).	1				
N2T-TR-B32-00300		30	Recommended l					
N2T-TR-B34-00110		11	 span set (EA, 		a company and the A			
N2T-TR-B34-00220		22	 span-snitt-vers 	sus-temperature	e compensation (N	∠1)		

Note 1: All products are RoHS compliant.



Bondable Resistor Patterns

Micro-Measurements

Bondable Resistors for Transducers - Selection Chart

GAGE PATTERN AND DESIGNATION			DIMENSIONS				
Actual size shown on right Insert Desired S-T-C No. in Spaces Marked XX See Note 1			PATTERN MATRIX				
		MS	Length	Width	Length	Width	
N2B-TR-C11-00050 д в с р	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		/ I	, ,	nd 20 at 1% (see	
	40	96		ment Instruction	s).		
	80	192	Recommended				
			•	rsus-temperature			
N2F-TR-D01-00005	0.		0.35	0.14	0.41	0.20	
N2B-TR-D01-00060 N2A-XX-D01-00180	18		8.9	3.6	10.4	5.1	
EA-XX-D01-00360	30					all, single-network	
N2K-XX-D01-00500/DP	50		•		bys and resistan	ces (see Resistor	
N2K-XX-D01-00750/DP	7		Adjustment Inst	tructions). ted are nominal f			
			Recommended		ully cut values.		
				npensation (N2F	<i>.</i>)		
				•	e compensation (N2B)	
				, N2A, and N2K)		,	
N2F-TR-E01-00005	0.	5	0.35	0.30	0.41	0.36	
N2A-XX-E01-00060	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	
	36			but incorporate two adjustable networks on one matrix to provide			
EA-XX-E01-00360 N2K-XX-E01-00500/DP N2K-XX-E01-00750/DP	50 75					equired in bridge	
	7.	5		ero-shift comper	nsation (see Re	sistor Adjustment	
			Instructions).				
			Recommended		ully cut values p	er network.	
1 2 3				npensation (N2F)		
				ce (EA, N2A, and			
N2A-XX-H21-00025	2.	-	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	
N2B-TR-H22-00010	1.	0			•	sistance value by	
	'.	0				tric pencil eraser.	
SP						loy, are used for	
						ors are typically nm in 1000-ohm	
						s used for bridge	
			- /	•	-	sistor Adjustment	
				esistance values	•		
			Recommended				
			 bridge baland 	()			
			 bridge zero-s 	hift compensatio	n (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 BoHS co	(-)	,., .,		

Note 1: All products are RoHS compliant.



Vishay Precision Group

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