MIME Micro-Measurements



Bondable Resistors for Transducers - Selection Chart

GAGE PATTER	N AND DESIGNATION		DIMENSIONS				
Actual size shown on right		RESISTANCE	PATTE	ERN	МАТ	MATRIX	
Insert Desired S-T-C No. in Spaces Marked XX. See Note 1		IN OHMS	Length Width Length			Width	
	A02			A	02	1	
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		/.0	4.0	
N2B-TR-A02-00250		25	0.40			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	A Pattern fixed	resistors are a	available in two si	izes and several	
N2B-TR-A02-00650		65			shown. Custom r		
N2B-TR-A02-00700		70 10		r a small set-u	o charge and 500	D-piece minimum	
N2T-TR-A02-00100 N2T-TR-A02-00125		12.5	order.				
N2T-TR-A02-00125		12.5	Resistance toler		+75°F [+24°C].		
N2T-TR-A02-00150		20	Recommended l				
N2T-TR-A02-00225		22.5	span-shift-vers		compensation		
N2T-TR-A02-00300		30	 temperature set 	ensing			
N2T-TR-A02-00400		40	Construction				
N2T-TR-A02-00450		45			are normally m		
N2T-TR-A02-00500		50			n but can be sup		
					ng the grid. Sold		
N2B-TR-A06-00150		15			nnections. To inc	lude this feature	
N2B-TR-A06-00175		17.5	add OPTION E2	to the resistor of	designation.		
N2B-TR-A06-00200		20	Examples: N2B-	TR-A06-00200/	E2, N2T-TR-A02-0	00250/E2.	
N2B-TR-A06-00250	A06	25	Resistance toler	ance on Ontion	E2 versions is ± 1	5% at ⊥75°E	
N2B-TR-A06-00300		30	[+ 24°C].			.070 at +70 1	
N2B-TR-A06-00400		40	[1 24 0].				
N2B-TR-A06-00600	nnnnnn	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 20					
N2T-TR-A06-00200 N2T-TR-A06-00225		20					
N2T-TR-A06-00225		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					
EA-XX-B32-02000		200			ljustable types. Th		
N2A-XX-B34-00700		70).15 R _{MAX} , where ent (see Resis		
EA-XX-B34-01400		140	Instructions).		CIT (SEE DESIS		
N2T-TR-B32-00160		16	Recommended l	lses:			
N2T-TR-B32-00300		30	 span set (EA, 				
N2T-TR-B34-00110		11			compensation (N	2T)	
N2T-TR-B34-00220		22		perature		,	

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			
		N MS	Length	Width	Length	Width
N2B-TR-C11-00050 А В С 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 N2B-TR-C13-00800	10	24	various nomina	l resistances adj	ustable to 240%	of the initial value.
	20	48			, ,	nd 20 at 1% (see
	40	96	,	ment Instruction	s).	
	80	192	Recommended			
				rsus-temperature		
N2F-TR-D01-00005 N2B-TR-D01-00060	0. 6		0.35	0.14	0.41	0.20
N2A-XX-D01-00180	1		8.9	3.6	10.4	5.1
EA-XX-D01-00360	3	-				all, single-network
N2K-XX-D01-00500/DP	5				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	-)	
				•	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	6	8.9	7.6	10.4	9.1
N2A-XX-E01-00180	18		E Pattern adiu	stable ladder res	sistors are simila	r to the D Pattern
EA-XX-E01-00360	3		-			matrix to provide
EA-XX-E01-00360 N2K-XX-E01-00500/DP N2K-XX-E01-00750/DP	5		the differential	adjustment ca	pability often re	equired in bridge
N2K-XX-E01-00750/DP	7	5	balance and z	ero-shift compe	nsation (see Re	sistor Adjustment
			Instructions).			
					fully cut values p	er network.
1 2 3			Recommended	Uses: npensation (N2F	-	
				ce (EA, N2A, and	,	
N2A-XX-H21-00025	2.	5	0.15	0.29	0.21	3.5
N2A-XX-H21-00060	6.	0	3.8	7.4	5.3	8.9
N2A-XX-H21-00060 N2B-TR-H22-00010	1.	0				sistance value by
		0				tric pencil eraser.
SP			•			loy, are used for
						ors are typically hm in 1000-ohm
SP,				-		s used for bridge
т 🔳 📕 С			• /			sistor Adjustment
				esistance values		
			Recommended			
			 bridge baland 			
			 bridge zero-s 	hift compensatio	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]	
ote 1: All products are BoHS compliant						

Note 1: All products are RoHS compliant.

DISCLAIMER

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