Gages for Composite Materials & Plastic (KFRPB & KFRS)

	Patterns,	,		Models		Dimensio	. ,	Domesius	
Gage F	Resistance, G	age Factor	IVIOdels			Gage (Grid) Base Length Width Length Width		Remarks	_
esistance:		/45° plan							STRAIN GAGES
	-			, ,	n a different li	near expansion	coefficient if requ	uested.	U
				5-350-D22-1 5-350-D22-3					Z
	°			5-350-D22-6		5 1.5	19 19		
	45°			5-350-D22-9					
	×			2-350-D22-1 2-350-D22-3					
4	15°			2-350-D22-5		2 2.2	15 15		
			KFRPB-2	2-350-D22-9					
	Patterns,					Dimensio	ons (mm)		1
Gage Resistance, Gage Factor			Models			Gage (Grid) Base		Remarks	
	•	5			Le	ength Width	Length Width		
RoHS When ordering, suffix the lead-wire cable code (see table below) to the model number with a space in between. E.g. For the gage with 3 polyester-coated			 systems and digital cameras. The gages are the self-temperature-compensation gages (SELCOM gages) for evaluating them. Dimensions of gage base (bondable space to mounted components and narrow parts) 1.2 mm long by 1.1 mm wide (uniaxial), 2.5 mm long by 2.5 mm wide (Biaxial or triaxial) Linear expansion coefficient of 13 x 10⁻⁶/°C, suitable for component-mounted board Self-temperature-compensation range is made as wide as -30 to 120°C to satisfy thermal cyclic tests of PCB. 						Strain Ga
		pre-attached	Applicabl	e Adhesives	··· -				Strain Gag
→ KFRS-02-120-C1-13 N10C3			Operating Temp. after Curing the Adhesive						Outline
or the gage with a vinyl-coated flat -wire cable 5 m long pre-attached			CC-33A -196 to 120°C CC-36 -30 to 100°C						
	5-120-D35-13		PC-600)	-196 to 150				Lead-wire ca
Types, le	2 polyester-coated copper wires	3 polyester-coated copper wires		pre-attache	1	Jages flat 3-wire cable	Mid-temperature 2-wire cable	Mid-temperature 3-wire cable	General
	C1 D34	, and D35	C1	D34, D35	C1	D34, D35	C1, D34,	and D35	Waterpro
Length 🛝	C1, D34,	, and 055	CI	034,033	CI	054,055	C1, D34, 1		_
	N10C2	N10C3							Concrete
10 cm 30 cm	N10C2 N30C2	N10C3 N30C3	L30C2R	 L30C2S	L30C3R	 L30C3S	 R30C2	R30C3	
10 cm		-	L1M2R	L1M2S	L1M3R	L1M3S	R1M2	R1M3	Composite ma PCB
10 cm 30 cm 1 m 3 m	N30C2	N30C3	L1M2R L3M2R	L1M2S L3M2S	L1M3R L3M3R	L1M3S L3M3S	R1M2 R3M2	R1M3 R3M3	Composite ma PCB Plastics
10 cm 30 cm 1 m 3 m 5 m	N30C2 N1M2	N30C3	L1M2R	L1M2S L3M2S L5M2S	L1M3R L3M3R L5M3R	L1M3S	R1M2 R3M2 R5M2	R1M3 R3M3 R5M3	Composite ma PCB Plastics Ultra-small s High tem
10 cm 30 cm 1 m 3 m	N30C2 N1M2 -196 to	N30C3 N1M3 	L1M2R L3M2R L5M2R	L1M2S L3M2S L5M2S	L1M3R L3M3R L5M3R o 80°C	L1M3S L3M3S	R1M2 R3M2	R1M3 R3M3 R5M3	Composite ma PCB Plastics Ultra-small s High tem
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth	N30C2 N1M2 -196 to Twisted fr er lead-wire a Resistan	N30C3 N1M3 o 150°C or ≥ 50 cm ce cable length face: 120 Ω	L1M2R L3M2R L5M2R L: ns, contact	L1M2S L3M2S L5M2S -10 to	L1M3R L3M3R L5M3R o 80°C	L1M3S L3M3S L5M3S	R1M2 R3M2 R5M2 -100 to	R1M3 R3M3 R5M3 150°C	Plastics Ultra-small st High tem Low tem High elonga
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth	N30C2 N1M2 	N30C3 N1M3 o 150°C or ≥ 50 cm ce: 120 Ω ctor: Approx. 2 stimes	L1M2R L3M2R L5M2R L5M2R L L S, contact 2.0 The followin	L1M2S L3M2S L5M2S -10 to -6 US.	L1M3R L3M3R L5M3R 0 80°C	L1M3S L3M3S L5M3S L-7	R1M2 R3M2 R5M2 -100 to L-11	R1M3 R3M3 R5M3 150°C	Composite ma PCB Plastics Ultra-small s High tem Low tem High elonga Non- magnetoresi
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth Uniaxi	N30C2 N1M2 -196 to Twisted fi er lead-wire al Resistan Gage fa	N30C3 N1M3 o 150°C or \geq 50 cm cable length ace: 120 Ω ctor: Approx. 2 B times d view	L1M2R L3M2R L5M2R L L L L L L L L L L L L L L L L L L L	L1M2S L3M2S -10 to -6 us. g models are de 120-C1-13 L1 2-120-C1-13 L	L1M3R L3M3R L5M3R o 80°C	L1M3S L3M3S L5M3S L-7 Vinyl-coated flat 1 0.65 0.2 0.8	R1M2 R3M2 R5M2 -100 to L-11 3-wire cable 1 m l	R1M3 R3M3 R5M3 150°C L-12	Composite ma PCB Plastics Ultra-small s High tem Low tem High elonga Non- magnetoresi
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth Uniaxi	N30C2 N1M2 -196 to Twisted fi er lead-wire al Resistan Gage fa	N30C3 N1M3 o 150°C or ≥ 50 cm ce: 120 Ω ctor: Approx. 2 stimes	L1M2R L3M2R L5M2R L L L L L L L L L L L L L L L L L L L	L1M2S L3M2S L5M2S -10 to -6 us. g models are de 120-C1-13 L1 2-120-C1-13 L ent Resis	L1M3R L3M3R L5M3R 0 80°C	L1M3S L3M3S L5M3S L-7	R1M2 R3M2 R5M2 -100 to L-11 3-wire cable 1 m l 4	R1M3 R3M3 R5M3 150°C L-12	Composite ma PCB Plastics Ultra-small s High tem Low tem High elonga Non- magnetoresi Hydrogen (Bending
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth Uniaxi	N30C2 N1M2 -196 tr Twisted fr er lead-wire al Resistan Gage fa enlarge	N30C3 N1M3 o 150°C or ≥ 50 cm e cable length cce: 120 Ω ctor: Approx. 2 B times d view plane ar	L1M2R L3M2R L5M2R L5M2R L L L L L L L L L L L L L L L L L L L	L1M2S L3M2S -10 tr -6 us. g models are de 120-C1-13 L1 2-120-C1-13 L 2-120-C1-13 L Ent Resis Gage	L1M3R L3M3R L5M3R o 80°C	L1M3S L3M3S L5M3S L-7 vinyl-coated flat <u>1 0.65</u> 0.2 0.8 2 prox. 2.0	R1M2 R3M2 R5M2 -100 to L-11 3-wire cable 1 m l 4	R1M3 R3M3 R5M3 150°C L-12 ong pre-attached.	Composite ma PCB Plastics Ultra-small s High tem Low tem High elonga Non- magnetoresi Hydrogen (Bending
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth Uniaxi Biaxial	N30C2 N1M2 	N30C3 N1M3 o 150°C or ≥ 50 cm cable length oce: 120 Ω ctor: Approx. 2 B times d view plane arr	L1M2R L3M2R L5M2R L5M2R L L L L L L L L L L L L L L L L L L L	L1M2S L3M2S -10 to -6 us. g models are de 120-C1-13 L1 2-120-C1-13 L ent Resis Gage g model is delive 2-120-D34-13	L1M3R L3M3R L5M3R o 80°C	L1M3S L3M3S L5M3S L-7 vinyl-coated flat <u>1 0.65</u> 0.2 0.8 2 prox. 2.0	R1M2 R3M2 R5M2 -100 to L-11 3-wire cable 1 m l 4 1.4 1.2 1.1 wire cable 1 m lon 2.5 2.5	R1M3 R3M3 R5M3 150°C L-12 ong pre-attached.	Composite ma PCB Plastics Ultra-small s High tem Low tem High elonga Non- magnetoresi Hydrogen o Bending With proteo Embedde Crack
10 cm 30 cm 1 m 3 m 5 m Operating temp. Remark * For oth Uniaxi Biaxial	N30C2 N1M2 	N30C3 N1M3 o 150°C or ≥ 50 cm cable length ace: 120 Ω ctor: Approx. 2 atimes d view plane arr times d view or/45° plat	L1M2R L3M2R L5M2R L5M2R L ns, contact 2.0 The followir KFRS-02 The followir KFRS-02 The followir NE Arrar	L1M2S L3M2S L5M2S -10 to -6 us. ug models are de 120-C1-13 L1 2-120-C1-13 L1 2-12	L1M3R L3M3R L5M3R o 80°C	L1M3S L3M3S L5M3S L-7 vinyl-coated flat <u>1 0.65</u> 0.2 0.8 2 0rox. 2.0 vyl-coated flat 3- 0.2 0.8 ice: 120 Ω ctor: Approx.	R1M2 R3M2 R5M2 -100 to L-11 3-wire cable 1 m l 4 1.4 1.2 1.1 wire cable 1 m lon 2.5 2.5	R1M3 R3M3 R5M3 150°C L-12 ong pre-attached. g pre-attached. 5 gages/ pkg	Composite man PCB Plastics Ultra-small st High tem Low tem High elonga Non- magnetoresi Hydrogen o Bending With protect Embedde