	ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.			REVISIONS	000. 1	00C. NO. 5PC-FD05 * Effective: 7/8/02 * DCP Nei 1308					
mult [®] comp			REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
municomp	TECHNOLOGY.	1991	A	RELEASED	ЛГ	07/03/08	MWL	07/07/08	JW∨	07/07/08	
	SPC-FOD&DWG	1995	в	Additional parts added	NL	09/09/08	MWL	09/09/08	JWM	09/09/08	
RoHS Compliant											
				H							
Wattage De	rating Chart			ote: Temperature Coefficient: <2		400 ррг ±300 р					
Ambient Te	275°C 15°C 20°C 25°C 30°C emperature 70°C				7						
No.Name1Basic Body	Material Rod Type Ceramics			5			Carlos Carlos				
2 Resistor	Cu-Ni Alloy / Ni-Cr Alloy				T			4			
3 End Cap 4 Lead Wire	Steel (Tin plated iron surface) annealed copper wire coated with tin				1			14			
5 Joint	By Welding			1		1	2				
6 Coating Ins	sulated & Non-Flame paint (Color: Light Green)			3		7	0				
7 Color Code	Non-Flame Epoxy Resin										
DISCLAIMER:	TOLERANCES: DRAWN BY:		DATE:	DRAWING TITLE:			d Daa	Jatava			
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED			07/03/08 RoHS Compliant Wirewound								
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, T USER SHALL DETERMINE THE SUITABILITY OF THE PRO	SPECIFIED, CHECKED BY:		DATE:	SIZE DWG. NO.	-			CTRONIC FILE		REV	
USER SHALL DETERMINE THE SUITABILITY OF THE PRO FOR THE INTENDED USE AND ASSUME ALL RISK AN	HE ODUCT .XX ±0.125 JWM D .XXX ±0.062 APPROVED BY		07/07/08 DATE:	A TA-88	5		TA	-883.	DWG	A	

Performance specification

Characteristics	Limits	Test Methods (JIS - C - 5201-1)	RoHS
Temperature coefficient	±300 PPM/°C Max. <20 O ± 400 PPM/°C	Natural resistance change per temp. degree centigrade R2-R1 R1(t2-t1) X 10 ⁶ (PPM/°C) R1: Resistance value at room temperature (t1) R2: Resistance value at room temp. plus 100°C (t2)	Complia
Short time overload	Resistance change rate is: ± (2.0 % + 0.05 Ω) Max.	Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds	
Short time overload	No Evidence of mechanical damage	 -Direct Load: Resistance to a 2.5kgs direct load for 10sec. in the direction of the longitudinal axis of the terminal leads. -Twist test: Terminal leads shall be bent throught 90° at a point of about 6mm from the body of the resistor and shall be rotated through 360° about the original axis of the bent terminal in alternating direction for a total of 3 rotations. 	
Temperature cycling	± (0.5 % + 0.05Ù) Max.	Resistance change after continuous 5 cycles for duty cycle specified below: Step Temperature Time 1 -55°C ±3°C 30 mins 2 Room temp. 10 ~ 15 mins 3 -155°C ±2°C 30 mins 4 Room temp. 10 ~ 15 mins	
Load life in humidity	Resistance change rate is \pm (5.0 % + 0.05 Ω) Max.	Resistance change after 1,000 hours (1.5 hours "on", 0.5hour "off") at RCWV in a humidity chamber controlled at40°C ±2°C and 90 to 95 % relative humidiity	
Load Life	Resistance change rate is \pm (5.0 % + 0.05 Ω) Max.	Permanent resistance change after 1,000 hours operating at RCWV, with duty cycle of (1.5 hours"on", 0.5 hour "off") at 70°C ±2°C ambient	
Resistance to Soldering Heat	Resistance change rate is \pm (1% + 0.05 Ω) Max. with no evidence of mechanical damage.	Permanent resistance change when leads immersed to 3.2 to 4.8 mm from the body in 350°C ± 10°C solder for 3± 0.5 seconds.	
Solderability	95 % coverage Min.	Test temperature of solder : 245 °C ± 3°C Dwell time in solder : 2 - 3 seconds	
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 SPC-F005.DWG
 DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1388
 SCALE: NTS
 U.O.M.: Millimeters
 SHEET: 2 OF 3

REV

Mfg. Part No.	Resistance		Wattage	D+1	L+1	d + 0.05	H+3					
	(Ohms) 1		(W) 3W					6	Compliant			
MCKNP03UJ010JB00		+/-50ppm/°C		+				(Exp Compliant			
MCKNP03UJ010KB00 MCKNP03UJ0100B00	0.1	+/-90ppm/°C	3W 3W	-								
MCKNP03030100B00 MCKNP03UJ0101B00	100	+/-20ppm/°C +/-20ppm/°C	3W 3W	+								
MCKNP03030101800 MCKNP03UJ0102B00	100	+/-20ppm/°C	3W 3W	+								
MCKNP0300102800 MCKNP03UJ0121800	120	+/-20ppm/°C	3W 3W	+								
MCKNP03030121800	1.2	+/-20ppm/°C	3W	+								
MCKNP0300122800 MCKNP03UJ0152B00	1.2	+/-20ppm/°C	3W 3W	+								
MCKNP03030132B00 MCKNP03UJ020JB00	2	+/-20ppm/°C	3W 3W	+								
MCKNP03UJ020KB00	0.2	+/-90ppm/°C	3W	1								
MCKNP0300020KB00 MCKNP03UJ0201B00	200	+/-20ppm/°C	3W 3W	+								
MCKNP03UJ0202B00	200	+/-20ppm/°C	3W	+								
MCKNP03030202800 MCKNP03UJ0221B00	220	+/-20ppm/°C	3W 3W	+								
MCKNP03UJ0221B00 MCKNP03UJ0250B00	220	+/-20ppm/°C	3W 3W	ł								
MCKNP03030250800 MCKNP03UJ0251B00	250	+/-20ppm/°C	3W 3W	5.5 mm	13.5 mm	0.70 mm	28 mm					
MCKNP 03030231800	300	+/-20ppm/°C	3W	+								
MCKNP03UJ0302B00	300	+/-20ppm/°C	3W 3W	†								
MCKNP 05050502B00 MCKNP03UJ0331B00	330	+/-20ppm/°C	3W 3W	+								
MCKNP030337B00 MCKNP03UJ0400B00	40	+/-20ppm/°C	3W 3W	+								
MCKNP03UJ0401B00	40	+/-20ppm/°C	3W 3W	+								
MCKNP03UJ0402B00	400	+/-20ppm/°C	3W	ł								
MCKNP03UJ0471B00	470	+/-20ppm/°C	3W	ł								
MCKNP03UJ050JB00	5	+/-50ppm/°C	3W	+								
MCKNP03UJ050KB00	0.5	+/-90ppm/°C	3W	ł								
MCKNP 0303050KB00 MCKNP03UJ0500B00	50	+/-20ppm/°C	3W	ł								
MCKNP03UJ0501B00	500	+/-20ppm/°C	3W	+								
MCKNP03UJ0502B00	5	+/-20ppm/°C	3W	ł								
MCKNP03UJ0750B00	75	+/-20ppm/°C	3W	+								
MCKNP07SF100JB00	10	+/-20ppm/°C	7W									
MCKNP07SF100KB00	1	+/-50ppm/°C	7W	+ + +								
MCKNP07SF1000B00	100	+/-20ppm/°C	7W									
MCKNP07SF1002B00	100	+/-20ppm/°C	7W									
MCKNP07SF1500B00	150	+/-20ppm/°C	7W	1	25mm							
MCKNP07SF2000B00	200	+/-20ppm/°C	7W	ł								
MCKNP07SF2000B00 MCKNP07SF2500B00	200	+/-20ppm/°C	7W	†								
MCKNP07SF500JB00	50	+/-20ppm/°C	7W	8.5mm	8 5mm	0.75mm	38mm					
MCKNP0ASF100JB00	10	+/-20ppm/°C	10W	8.5mm		0.7 01111	501111					
MCKNP0ASF100KB00	10	+/-50ppm/°C	10W									
MCKNP0ASF1000B00		+/-20ppm/°C	10W									
MCKNP0ASF150JB00	100	+/-20ppm/°C	10W		53mm							
MCKNP0ASF200KB00		+/-20ppm/°C	10W	1								
MORAN DAGI 2001200 MCKNP0ASF300JB00		+/-20ppm/°C	10W	1								
MORAN OVER DECEMBER		+/-50ppm/°C	10W	1								
									TRONIC FILE			
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SPC-F005.DWG DOC. NO. SPC-F0035 * Effective: 7/8/02 * DCP No: 1388				SCALE:	SCALE: NTS U.O.M.: Millimeters SH				SHEET: 3 OF	EET: 3 OF 3		