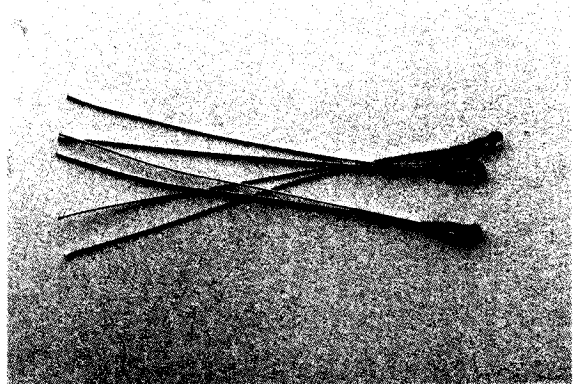


# NTC THERMISTORS: TYPE GM

INDUSTRIAL / CONSUMER
PROFESSIONAL
Temperature Measurement & Control
Fluid Level Detection
Flow Measurement & Control

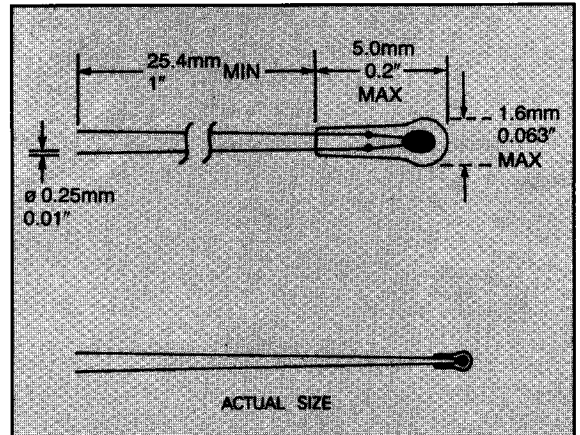


## DESCRIPTION

Small size, fast response – typical applications include:

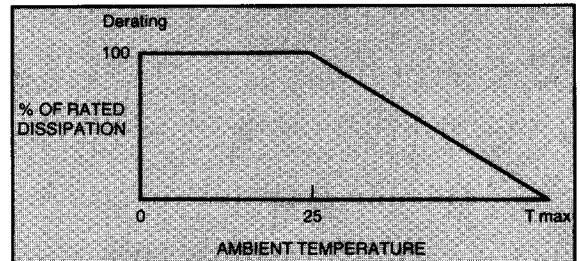
- temperature compensation of crystal oscillators
- control of industrial boiler temperature
- monitor of machine lubricant flow
- Approved to CECC 43 000
- Resistance tolerances  $\pm 20\%$   $\pm 10\%$   $\pm 5\%$  at reference temperature
- B value tolerance  $\pm 3\%$
- Time constant (cooling) = 5s
- Dissipation factor =  $0.75\text{mW}/^\circ\text{C}$
- Typical resistance change after 10,000 hours at  $25^\circ\text{C}$   $< 1\%$
- Weight = 0.1g
- Pack quantity = 25

## DIMENSIONS

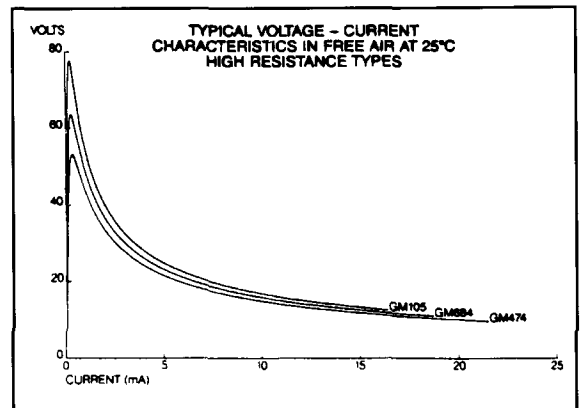
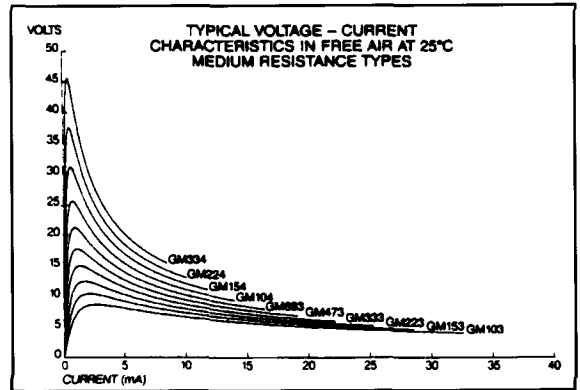
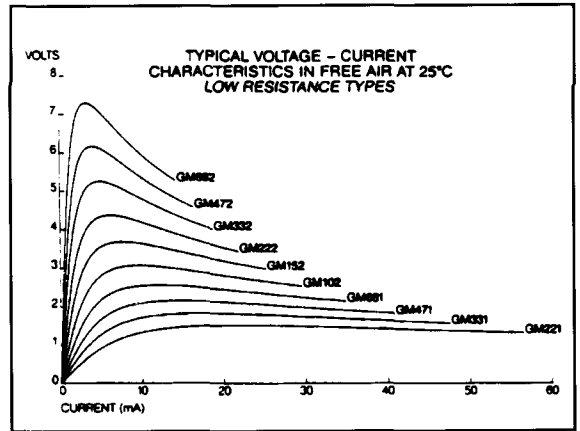


## CODING

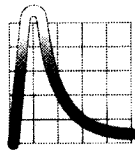
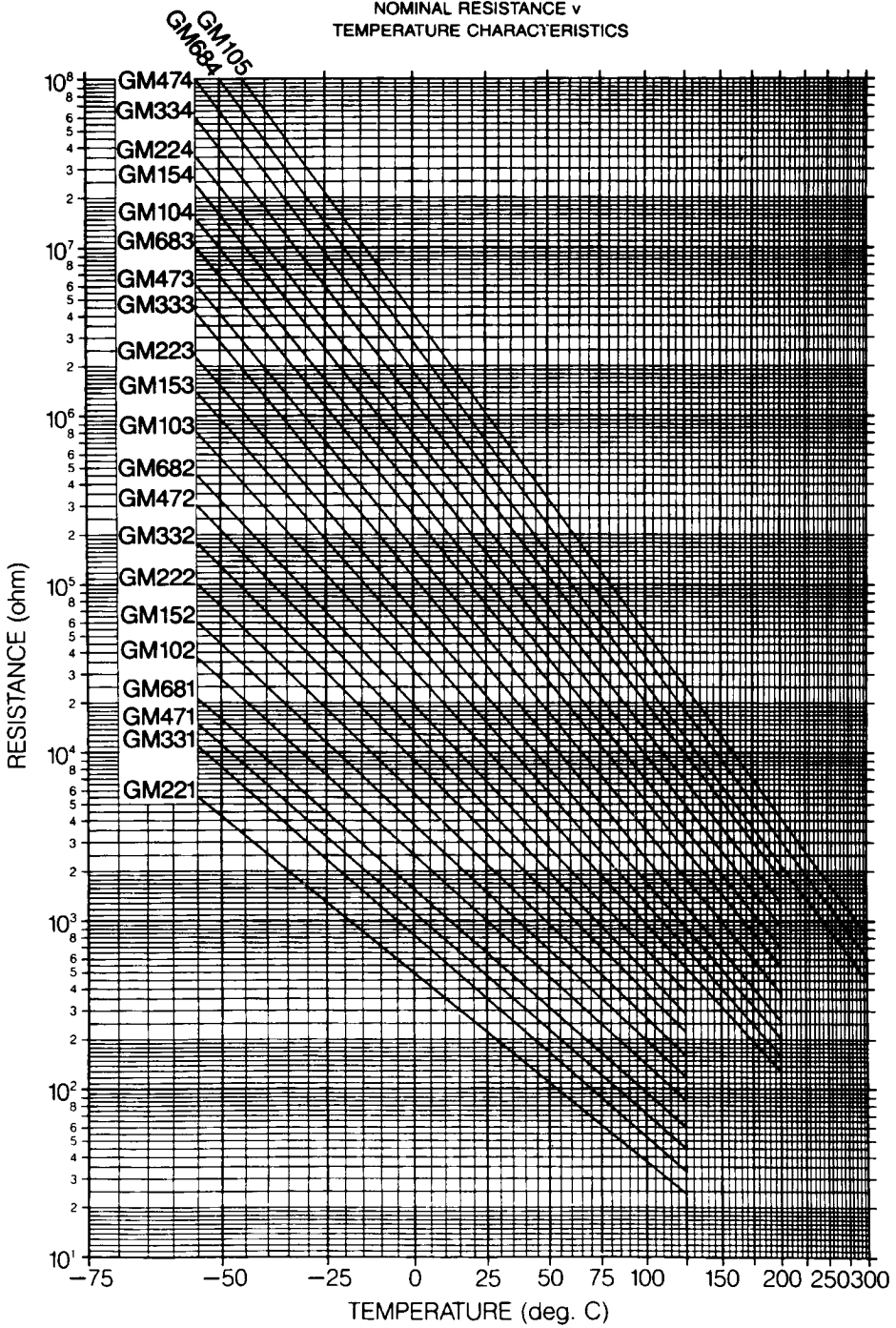
GM.	GM type
47	Base resistance factor at $25^\circ\text{C}$
3	Resistance multiplier
	1 = $10^1$ ,
	2 = $10^2$ ,
	3 = $10^3$ ,
	4 = $10^4$ ,
5 = $10^5$ ,	
Y	Resistance tolerance at reference temperature
	W = $\pm 20\%$ ,
	Y = $\pm 10\%$ ,
	Z = $\pm 5\%$ ,
eg GM473Y = $47 \times 10^3 \Omega = 47\text{K}\Omega \pm 10\%$ at $25^\circ\text{C}$	



Resistance Group	Code	Reference Resistance	B value	$\infty$ at 25°C	Reference Temperature	Tmax	Pmax at 25°C
		$\Omega$	K	%/°C	°C	°C	mW
LOW			25-85		25	125	75
	GM221	220	2855	-2.99			
	331	330	2725	-3.07			
	471	470	2780	-3.13			
	681	680	2845	-3.20			
	102	1k	2910	-3.27			
	152	1.5k	3010	-3.39			
	222	2.2k	3125	-3.52			
	332	3.3k	3240	-3.64			
	472	4.7k	3340	-3.76			
682	6.8k	3445	-3.88				
MEDIUM			25-85		25	200	130
	103	10k	3555	-4.00			
	153	15k	3670	-4.13			
	223	22k	3780	-4.25			
	333	33k	3895	-4.38			
	473	47K	3940	-4.43			
	683	68K	3995	-4.49			
	104	100K	4045	-4.55			
	154	150K	4100	-4.61			
	224	220K	4145	-4.66			
334	330K	4200	-4.72				
HIGH			100-200		100	300	205
	474	25K	4725	-4.86			
	684	35k	4800	-4.93			
	105	50k	4900	-5.04			



NOMINAL RESISTANCE v  
TEMPERATURE CHARACTERISTICS



**T H E R M O M E T R I C S**

A C O M M I T M E N T T O E X C E L L E N C E

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