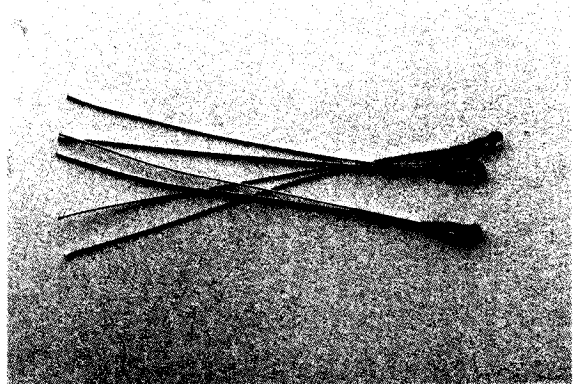


NTC THERMISTORS: TYPE GM

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

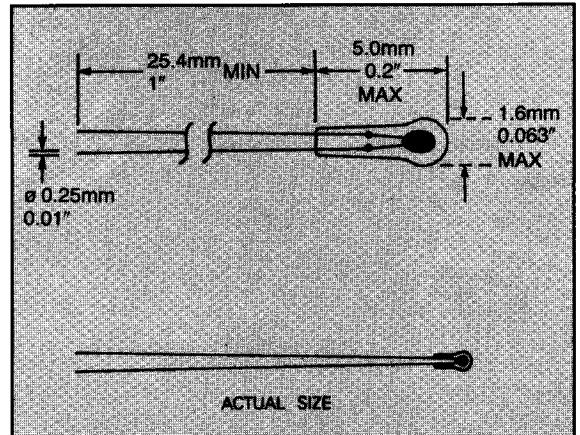


DESCRIPTION

Small size, fast response – typical applications include:

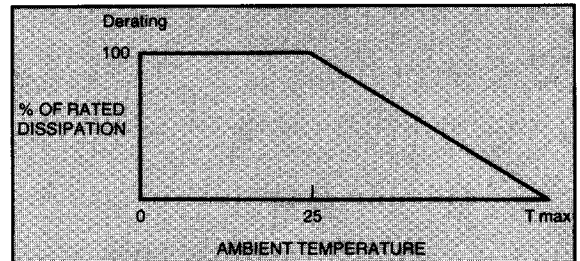
- temperature compensation of crystal oscillators
- control of industrial boiler temperature
- monitor of machine lubricant flow
- Approved to CECC 43 000
- Resistance tolerances $\pm 20\%$ $\pm 10\%$ $\pm 5\%$ at reference temperature
- B value tolerance $\pm 3\%$
- Time constant (cooling) = 5s
- Dissipation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

DIMENSIONS

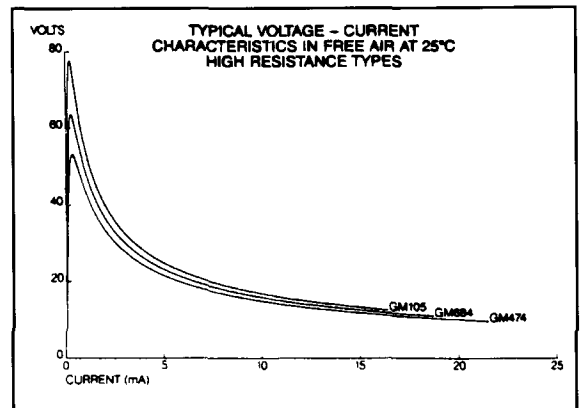
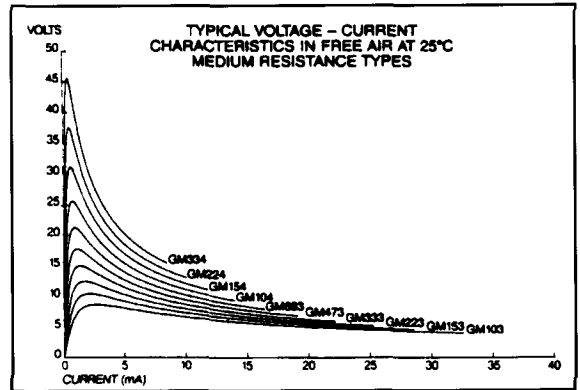
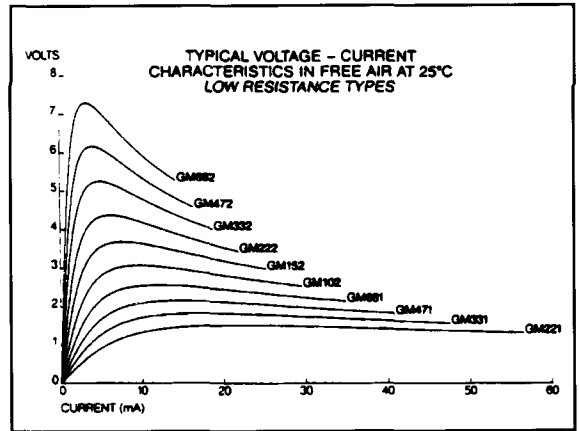


CODING

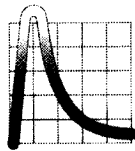
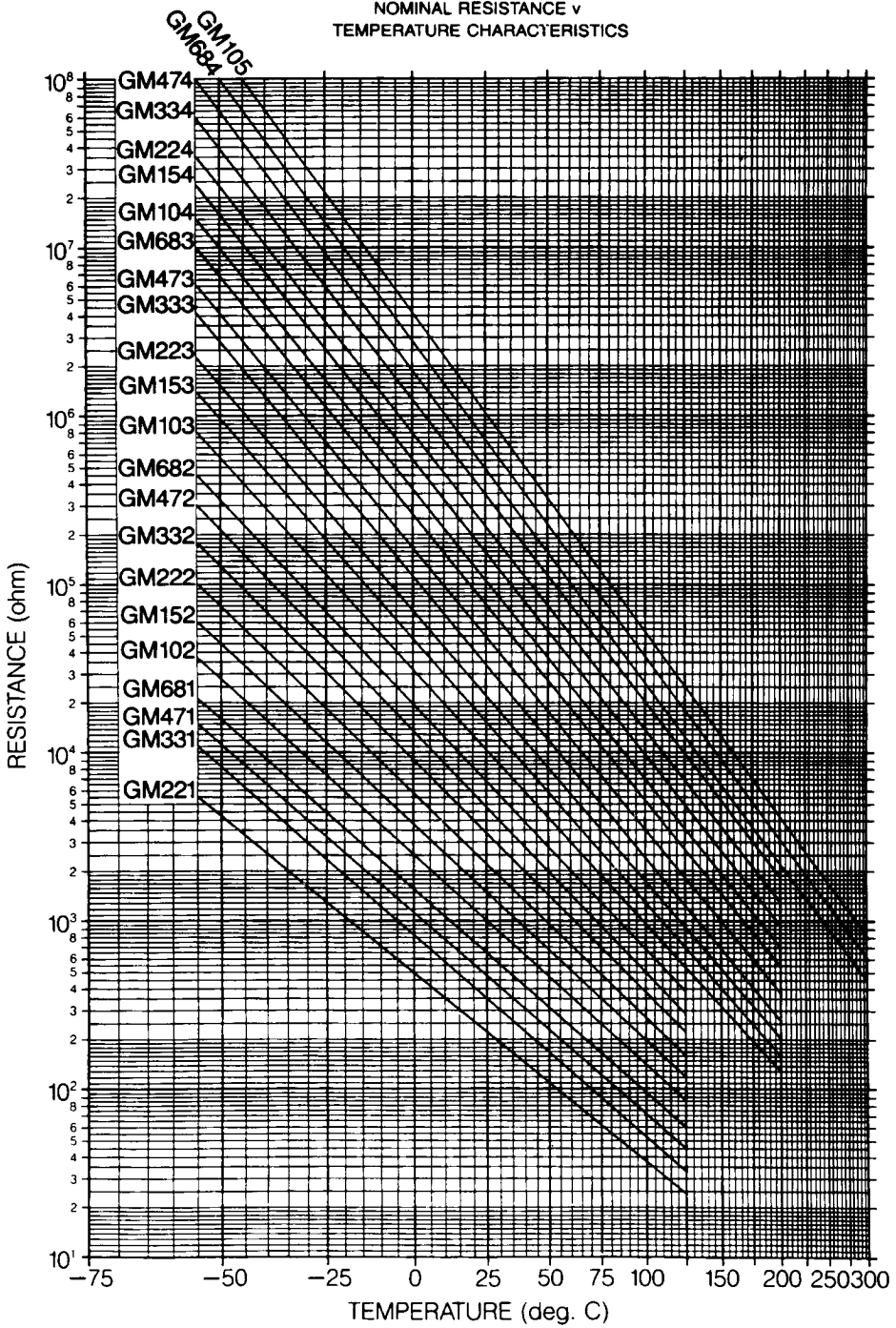
GM.	GM type
47	Base resistance factor at 25°C
3	Resistance multiplier
	1 = 10^1 ,
	2 = 10^2 ,
	3 = 10^3 ,
	4 = 10^4 ,
5 = 10^5 ,	
Y	Resistance tolerance at reference temperature
	W = $\pm 20\%$,
	Y = $\pm 10\%$,
	Z = $\pm 5\%$,
eg GM473Y = $47 \times 10^3 \Omega = 47\text{K}\Omega \pm 10\%$ at 25°C	



Resistance Group	Code	Reference Resistance	B value	∞ at 25°C	Reference Temperature	Tmax	Pmax at 25°C
		Ω	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

CROWN INDUSTRIAL ESTATE, PRIORSWOOD ROAD, TAUNTON, SOMERSET TA2 8QY. U.K.
TELEPHONE: 0823 335200. SALES LINE: 0823 336644. TELEX: 46748. FAX: 0823 332637

808 U.S. HIGHWAY #1. EDISON, NEW JERSEY 08817-4695, U.S.A.
TELEPHONE: (908) 287-2870. TELEX: 844-387. FAX: (908) 287 8847.