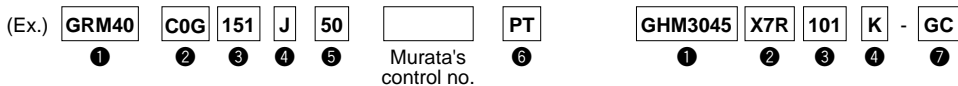


Previous Part Numbering of Chip Monolithic Ceramic Capacitors



① Type

• For General Electronics Equipment/For Ultrasonic

Series	Dimension (in mm)	EIA
GRM30	0.4×0.2	01005
GRM33	0.6×0.3	0201
GRM36, GRM36-□□□	1.0×0.5	0402
GRM39, GRM39-□□□	1.6×0.8	0603
GRM40, GRM40-□□□	2.0×1.25	0805
GRM42-6, GRM42-6□□	3.2×1.6	1206
GRM42-2, GRM42-2□□	3.2×2.5	1210
GRM43-2	4.5×3.2	1812
GRM44-1	5.7×5.0	2220
GRM610	0.6×0.3	0201
GRM615	1.0×0.5	0402
GM250	0.5×0.5	0202
GM260	0.8×0.8	0303
GNM23-201	1.37×1.0	0504
GNM25-201	2.0×1.25	0805
GNM25-401	2.0×1.25	0805
GNM30-401	3.2×1.6	1206
GRQ706	1.6×0.8	0603
GRQ708	2.0×1.25	0805
LL0306, LL0306-020	1.6×0.8	0306
LL0508, LL0508-020	2.0×1.25	0508
LL0612, LL0612-020	3.2×1.6	0612
LLA0603	1.6×0.8	0603
LLA0805, LLA0805-22	2.0×1.25	0805
LLA1206, LLA1206-22	3.2×1.6	1206
LLM0805, LLM0805-22	2.0×1.25	0805
LLM1206, LLM1206-22	3.2×1.6	1206

• High-voltage/AC250V Type/Safety std. Recognition

Series	Dimension (in mm)	EIA
GHM1030	3.2×1.6	1206
GHM1035	3.2×2.5	1210
GHM1038	4.5×2.0	1808
GHM1040	4.5×3.2	1812
GHM1525	2.0×1.25	0805
GHM1530	3.2×1.6	1206
GHM1535	3.2×2.5	1210
GHM1540	4.5×3.2	1812
GHM1545	5.7×5.0	2220
GHM2413	5.7×2.8	2211
GHM2145	5.7×5.0	2220
GHM2243	5.7×2.8	2211
GHM3045	5.7×5.0	2220
GHM3145	5.7×5.0	2220

② Temperature Characteristic

• Temperature Compensating Type

Code	COG	COH	P2H	R2H	S2H	T2H	U2J	SL
Temp. Range	-55 to 125°C		-55 to 85°C					
Temp. Coeff. (ppm/°C)	0±30	0±60	-150±60	-220±60	-330±60	-470±60	-750±120	+350 to -1000

• High Dielectric Constant

Code	X7R	X7S	X6S	X5R	Y5V	B	R
Temp. Range	-55 to 125°C	-55 to 125°C	-55 to 105°C	-55 to 85°C	-30 to 85°C	-25 to 85°C	
Cap. Change (%)	±15	±22	±22	±15	+22 -82	±10	±15

• High-voltage/AC250V Type/Safety std. Recognition


Code	SL	R/X7R	B
Temp. Range	20 to 85°C	-55 to 125°C	-25 to 85°C
Cap. Change	+350 to -1000ppm/°C	±15%	±10%

• For Ultrasonic

Code	ZLM	
Temp. Range	-25 to 20°C	20 to 85°C
Temp. Coeff. (ppm/°C)	-4700 +1000 -2500	-4700 +500 -1000

Continued on the following page.

Previous Part Numbering of Chip Monolithic Ceramic Capacitors

 Continued from the preceding page.

③ Capacitance

(Ex.)

Code	Capacitance (pF)
0R5	0.5
R75	0.75
010	1
100	10
101	100
103	10000

④ Capacitance Tolerance

Type	Code	Capacitance Tolerance		Capacitance Step
Temperature Compensating Type	B	$\leq 5\text{pF}$	$\pm 0.1\text{pF}$	E24 series, $\pm 0.1\text{pF}$
	C	$< 10\text{pF}$	$\pm 0.25\text{pF}$	E24 series, $\pm 0.1\text{pF}$
	D		$\pm 0.5\text{pF}$	1pF
	J	$\geq 10\text{pF}$	$\pm 5\%$	E12 series
High Dielectric Constant	K	$\pm 10\%$		E6 series
	M	$\pm 20\%$		E6 series
	Z	+80, -20%		E3 series
High-voltage/AC250V Type/ Safety Standard Recognition	D	$\leq 10\text{pF}$	$\pm 0.5\text{pF}$	10pF
	J	$> 10\text{pF}$	$\pm 5\%$	E12 series
	K	$\pm 10\%$		E6 series
	M	$\pm 20\%$		E3 series

⑤ Rated Voltage

Code	Rated Voltage	Code	Rated Voltage	Code	Rated Voltage
6.3	DC6.3V	50	DC50V	3K	DC3.15kV
10	DC10V	250	DC250V	AC250	AC250V(r.m.s.)
16	DC16V	630	DC630V		
25	DC25V	2K	DC2kV		

Not apply to GHM3000 Series [Rated voltage : AC250V (r.m.s.)]

⑥ Packing Code

Code	Packaging
PB	Bulk packaging in a bag
PT	Tape carrier packaging
PC	Bulk case packaging
PM	Bulk packaging in a tray

⑦ Type Designation (Apply to GHM3000 Series.)

Code	Type Designation
-GB	Type GB
-GC	Type GC