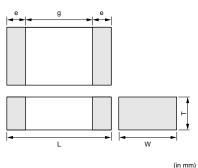
Data Sheet

Monolithic Ceramic Capacitors

GRM188E41H223MA01 (0603, Z5U, 22000pF, 50Vdc)

□: packaging code

RoHS regulation conformity parts



Dimensions

Length L	1.6mm±0.1mm	
Width W	0.8mm±0.1mm	
Thickness T	0.8mm±0.1mm	
Electrode e	0.2 to 0.5mm	
Electrode Gap g (min.)	0.5mm	

Rated Value

TC Code	E4	
TC Code (Standard)	Z5U (EIA)	
Capacitance Change	+22/-56%	
Capacitance	22000pF±20%	
Rated Voltage	50Vdc	

Packaging

Packaging	Minimum Quantity
180mm Paper Tape	4000
330mm Paper Tape	10000
Bulk Case	15000
Bulk(Bag)	1000
	180mm Paper Tape 330mm Paper Tape Bulk Case

Specifications

Please refer to 'Specification' PDF file.

• This data sheet is applied for CHIP MONOLITHIC CERAMIC CAPACITOR used for General Electronics equipment for your design.

<Notice>

• Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use. • Use of Sn-Zn based solder will deteriorate reliability of MLCC. Please contact murata factory for the use of Sn-Zn based solder in advance.

• The RoHS compliance means that we judge from EU Directive 2002/95/EC the products do not contain lead, cadmium, mercury, hexavalent chromium, PBB and PBDE, except exemptions stated in EU Directive 2002/95/EC annex and impurities existing in natural world. • This statement does not insure the compliance of any of the listed parts with any laws or legal imperatives developed by any EU members

individually with regards to the RoHS Directive.

A Note:

1. This datasheet is downloaded from the website of Murata Manufacturing co., Itd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

