

# GRM188F51H224ZA01#

"#" indicates a package specification code.



< List of part numbers with package codes >  
GRM188F51H224ZA01D , GRM188F51H224ZA01J

## Shape

|                                       |              |
|---------------------------------------|--------------|
|                                       |              |
| L size                                | 1.6 ± 0.1mm  |
| W size                                | 0.8 ± 0.1mm  |
| T size                                | 0.8 ± 0.1mm  |
| External terminal width e             | 0.2 to 0.5mm |
| Distance between external terminals g | 0.5mm min.   |
| Size code in inch(mm)                 | 0603 (1608)  |

## References

| Packaging | Specifications     | Minimum quantity |
|-----------|--------------------|------------------|
| D         | 180mm Paper taping | 4000             |
| J         | 330mm Paper taping | 10000            |

| Mass (typ.) |       |
|-------------|-------|
| 1 piece     | 6.3mg |
| 180mm Reel  | 144g  |

## Specifications

|  |                 |
|--|-----------------|
| Capacitance                                      | 0.22μF +80/-20% |
| Rated voltage                                    | 50Vdc           |
| Temperature characteristics (complied standard)  | Y5V(EIA)        |
| Capacitance change rate                          | +22.0/-82.0%    |
| Temperature range of temperature characteristics | -30 to 85       |
| Operating temperature range                      | -30 to 85       |

### ⚠ Attention

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