



< List of part numbers with package codes >

GRM188B31E224KA87D , GRM188B31E224KA87J

## 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 (1608M) |

## Notes

Please use alternative.

## References

| Packaging | Specifications      | Minimum quantity |
|-----------|---------------------|------------------|
| D         | φ180mm Paper taping | 4000             |
| J         | φ330mm Paper taping | 10000            |

| Mass (typ.) |       |
|-------------|-------|
| 1 piece     | 6.3mg |
| φ180mm Reel | 144g  |

## Specifications

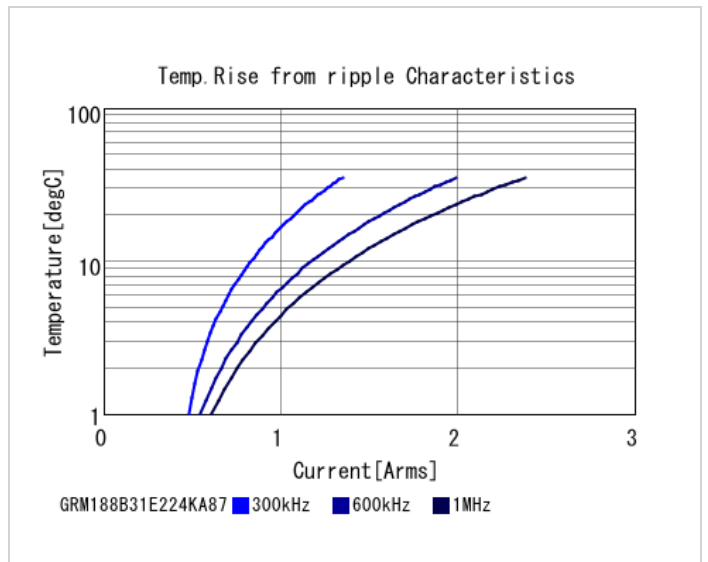
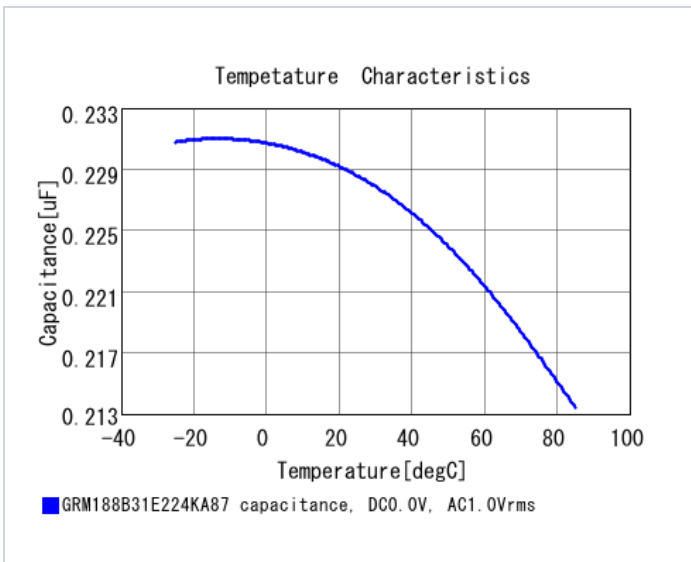
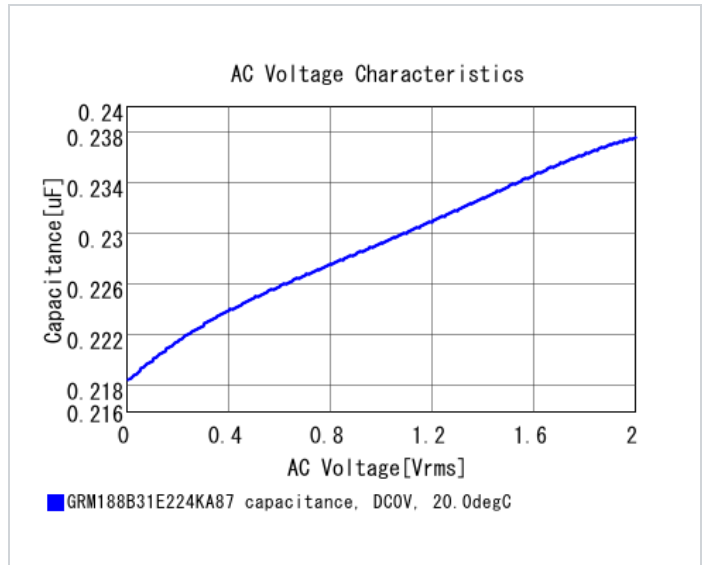
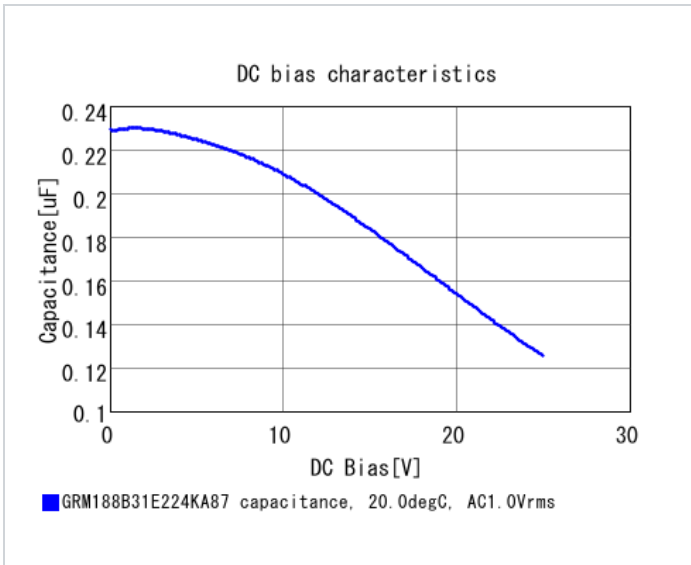
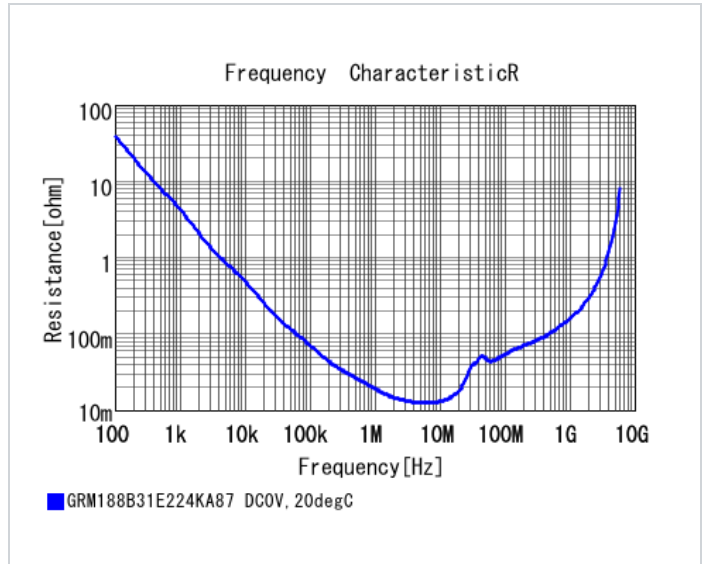
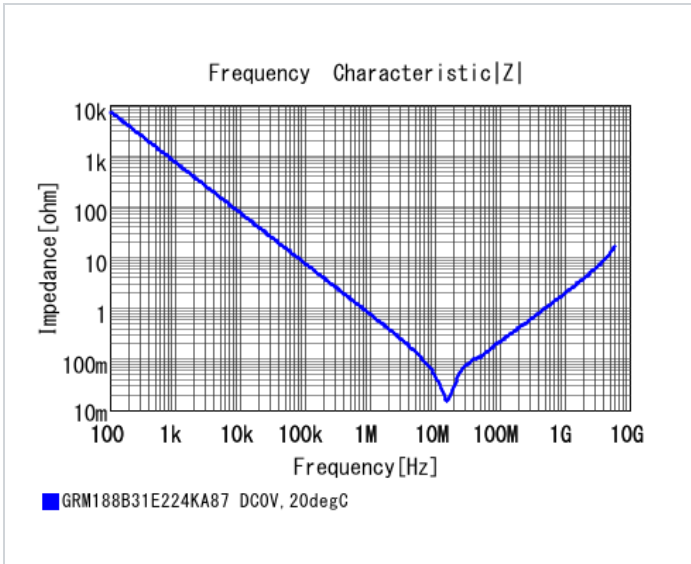
|  |             |
|--|-------------|
| Capacitance                                      | 0.22μF ±10% |
| Rated voltage                                    | 25Vdc       |
| Temperature characteristics (complied standard)  | B(JIS)      |
| Capacitance change rate                          | ±10.0%      |
| Temperature range of temperature characteristics | -25 to 85°C |
| Operating temperature range                      | -25 to 85°C |

### ⚠ Attention

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