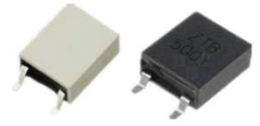


### MAIN FEATURE

- SMD Package, 2 Pins, Lead Formed
- Compatible to Murata CSBFB
- Low Cost and short lead time
- Varies with Frequency Range

### APPLICATION

- Communication and more



L7.0\*W3.5\*H9.0mm  
Varies with Frequency Range

### STANDARD SPECIFICATION

Parameter	Value			Unit	Condition
	Min.	Type	Max.		
Frequency Range	375	455	1250	KHz	see p/n guide or Specify
Frequency Accuracy		±0.5		%	@25 °C
Operating Temperature Range	-20	-	+85	°C	
Storage Temperature Range	-35	-	+85	°C	
Capacitance (C1/C2)	-	120/470	-	pF	C1: 120; C2: 470 for 375~429 KHz
		100	-		430~1250 KHz
	-	-	-		-
Temperature Coefficient	-	±0.3	-	%	Oscillation Freq. drift @-20 °C ~+85 °C
Resonant Impedance	-	-	100	ohm	See table 1
Aging per year*	-	-	±0.5	%	From initial value
Withstanding Voltage		100		V	DC, 5s Max.
Insulation Resistance Ri	100			MΩ	10V, 1min
Rating Voltage UR		50		V	DC
		15		V	p-p AC
IC	1/6CD4069UBE				

\* Parts shall be left in a chamber of +85 °C ±2°C for 1000 hours, then measured after leaving in natural condition for 1 hours.

### DIMENSION (mm)

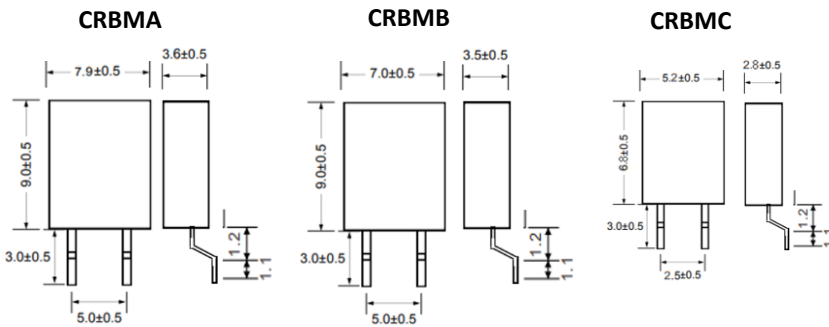


Table 1

Series No.	ESR (ohm) Max.	Frequency Range (KHz)
CRBMA	20	375~400
CRBMB	20	401~509
CRBMB	30	510~699
CRBMC	50	700~900
CRBMC	70	901~999
CRBMC	100	1000~1250

#1 In/Output #2 Output/Input

### PART NUMBER GUIDE

Example: TGS CRBMB 455 TLF

Part Number and Part Code Structure

TGS	CR	B	M	B	455	T	LF	XX
1	2	3	4	5	6	7	8	9

- 1) TGS: Company Code
- 2) CR: Ceramic Resonator
- 3) B: 2 Pins
- 4) M: SMD Package, Lead Formed
- 5) B: Outline dimension, A: L7.9\*W3.6\*H9.0mm, B: L7.0\*W3.5\*H9.0mm; C: L5.2\*W2.8\*H6.8mm
- 6) 455: Frequency range; 455: 455KHz or specify
- 7) T: Package in Tape/Reel, 1000pcs/Reel
- 8) LF: RoHS Compliant
- 9) XX: Internal Control Code; Blank: N/A

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