

	DATASHEET	Part No.
	Multi-layer ceramic capacitor	ACS03X50N104KNDG

CUSTOMER :

DATA SHEET

Product name	: Multi-layer ceramic capacitor
Part number	: ACS03X50N104KNDG
Features	: 0603inch / 1608mm, 0.1uF, ±10%, X7R, DC 50V
Revision date	: 2020/08/04

	Address : 380, NAMDONGSEO-RO, NAMDONG-GU INCHEON, 21629 KOREA (AMOTECH. CO., LTD)
	Contact : TEL) 82-32-821-0363, FAX) 82-32-811-0283

	DATASHEET	Part No.
	Multi-layer ceramic capacitor	ACS03X50N104KNDG

1. Part descriptions :

1.1 Feature :

- 0603inch / 1608mm size
- Wide range of capacitance and voltage
- Highly reliable performance
- Tape & Reel for surface mount assembly
- Stable temperature dependence of capacitance
- RoHS compliance, Halogen free

1.2. Applications :

- General electronic circuit
- General power supply circuit (SMPS etc.)
- DC-DC converter

1.3. Circuit Applications :

- Coupling & Decoupling
- Filtering
- Bypass and DC Blocking

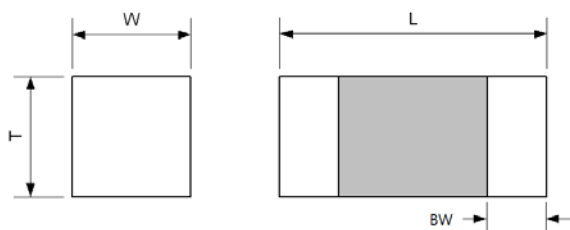
2. Specifications

2.1 Electrical characteristics

Part number	ACS03X50N104KNDG (General)
Material	X7R
Rated voltage(Vdc) [V]	50
Capacitance[μF] @1kHz, 1Vrms	0.1 (\pm 10%)
Dissipation factor @1kHz, 1Vrms	2.5% Max.
Insulation resistance[Ω*F] @Vdc	500 Min.
Operating temperature[$^{\circ}$C]	-55 ~ +125

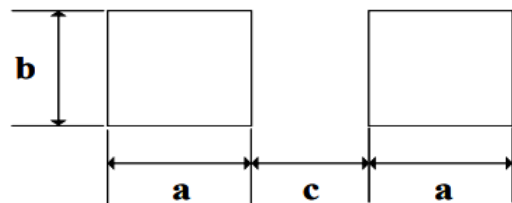
2.2 Mechanical dimension and solder pad

■ Mechanical dimension



	L	W	T	BW
Size	1.6	0.8	0.8	0.3
(mm)	\pm 0.10	\pm 0.10	\pm 0.10	\pm 0.20

■ Recommended solder pad



	a	b	c
Size	0.75	0.9	0.8
(mm)	\pm 0.05	\pm 0.10	\pm 0.10

※ Note: Please contact local sales if you want to order low profile products or some special products are excluded from this data sheet.

2.3. Typical performance data

