Ferrite for Telecommunication

SMD cores

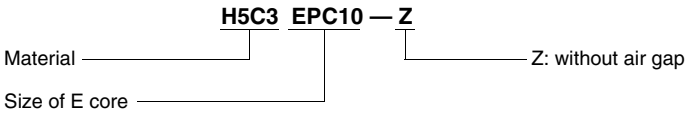
EPC/ER/EE/EEM series

Issue date: April 2011

- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

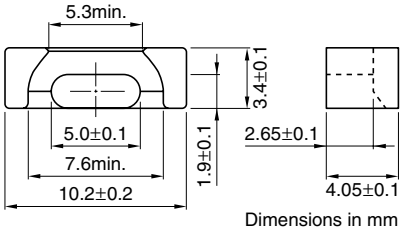
Ferrite for Telecommunication
SMD Cores

ORDERING CODE SYSTEMS



EPC Series

EPC10 CORES



Dimensions in mm

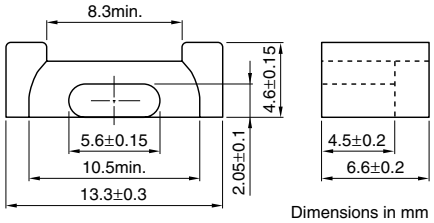
TYPICAL CHARACTERISTICS

Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3EPC10-Z	2660 min.

PARAMETER

Core factor	C1	mm⁻¹	1.89
Effective magnetic path length	ℓe	mm	17.8
Effective cross-sectional area	Ae	mm²	9.39
Effective core volume	Ve	mm³	167
Cross-sectional center pole area	Acp	mm²	8.73
Minimum cross-sectional area	Acp min.	mm²	8.13
Cross-sectional winding area of core	Acw	mm²	7.69
Weight (approx.)		g	1.1

EPC13 CORES



Dimensions in mm

TYPICAL CHARACTERISTICS

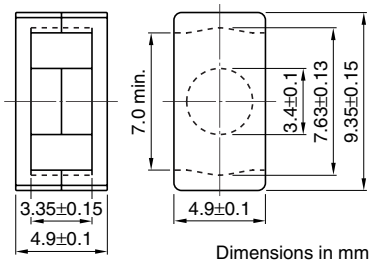
Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3EPC13-Z	2450 min.

PARAMETER

Core factor	C1	mm⁻¹	2.46
Effective magnetic path length	ℓe	mm	30.6
Effective cross-sectional area	Ae	mm²	12.5
Effective core volume	Ve	mm³	382
Cross-sectional center pole area	Acp	mm²	10.6
Minimum cross-sectional area	Acp min.	mm²	9.71
Cross-sectional winding area of core	Acw	mm²	23.0
Weight (approx.)		g	2.1

ER Series

ER9.5/5 CORES



Dimensions in mm

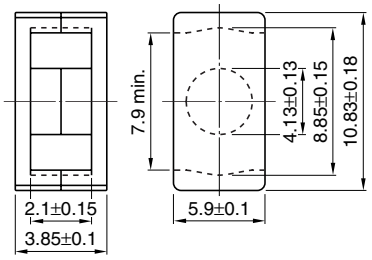
TYPICAL CHARACTERISTICS

Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3ER9.5/5-Z	3500 min.

PARAMETER

Core factor	C1	mm⁻¹	1.67
Effective magnetic path length	ℓe	mm	14.2
Effective cross-sectional area	Ae	mm²	8.47
Effective core volume	Ve	mm³	120
Cross-sectional center pole area	Acp	mm²	9.08
Minimum cross-sectional area	Acp min.	mm²	8.55
Cross-sectional winding area of core	Acw	mm²	7.1
Weight (approx.)		g	0.6

ER11/3.9 CORES



Dimensions in mm

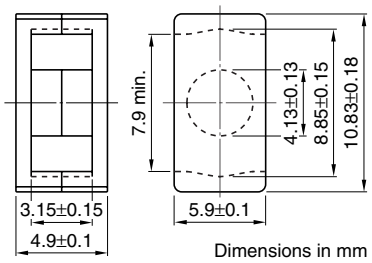
TYPICAL CHARACTERISTICS

Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3ER11/3.9-Z	4900 min.

PARAMETER

Core factor	C1	mm⁻¹	1.08
Effective magnetic path length	ℓe	mm	12.6
Effective cross-sectional area	Ae	mm²	11.7
Effective core volume	Ve	mm³	147
Cross-sectional center pole area	Acp	mm²	13.4
Minimum cross-sectional area	Acp min.	mm²	12.6
Cross-sectional winding area of core	Acw	mm²	4.96
Weight (approx.)		g	0.8

ER11/5 CORES



Dimensions in mm

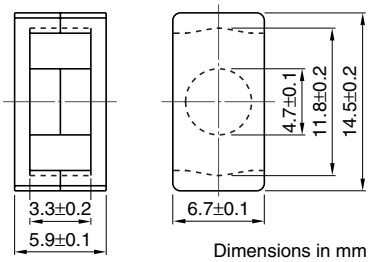
TYPICAL CHARACTERISTICS

Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3ER11/5-Z	4760 min.

PARAMETER

Core factor	C1	mm⁻¹	1.23
Effective magnetic path length	ℓe	mm	14.7
Effective cross-sectional area	Ae	mm²	11.9
Effective core volume	Ve	mm³	174
Cross-sectional center pole area	Acp	mm²	13.4
Minimum cross-sectional area	Acp min.	mm²	12.6
Cross-sectional winding area of core	Acw	mm²	7.44
Weight (approx.)		g	1.0

ER14.5/6 CORES



Dimensions in mm

TYPICAL CHARACTERISTICS

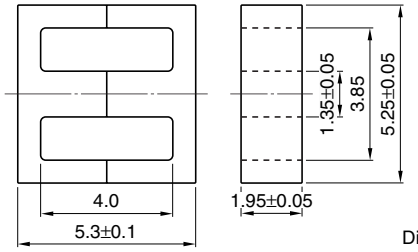
Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3ER14.5/6-Z	5950 min.

PARAMETER

Core factor	C1	mm⁻¹	1.08
Effective magnetic path length	ℓe	mm	19.0
Effective cross-sectional area	Ae	mm²	17.6
Effective core volume	Ve	mm³	333
Cross-sectional center pole area	Acp	mm²	17.3
Minimum cross-sectional area	Acp min.	mm²	16.6
Cross-sectional winding area of core	Acw	mm²	11.7
Weight (approx.)		g	1.8

EE Series

EE5 CORES



Dimensions in mm

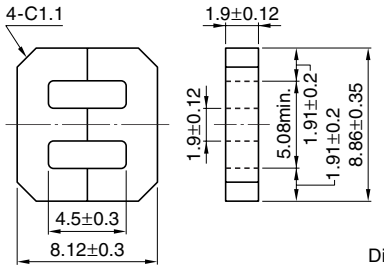
TYPICAL CHARACTERISTICS

Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3EE5-Z	980 min.

PARAMETER

Core factor	C1	mm⁻¹	4.72
Effective magnetic path length	ℓe	mm	12.6
Effective cross-sectional area	Ae	mm²	2.67
Effective core volume	Ve	mm³	33.6
Cross-sectional center pole area	Acp	mm²	2.63
Minimum cross-sectional area	Acp min.	mm²	2.47
Cross-sectional winding area of core	Acw	mm²	5.0
Weight (approx.)		g	0.2

EE8.9/8 CORES



Dimensions in mm

TYPICAL CHARACTERISTICS

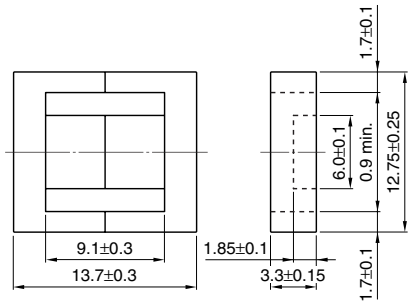
Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3EE8.9/8-Z	2000 min.

PARAMETER

Core factor	C1	mm⁻¹	3.15
Effective magnetic path length	ℓe	mm	15.6
Effective cross-sectional area	Ae	mm²	4.96
Effective core volume	Ve	mm³	77.4
Cross-sectional center pole area	Acp	mm²	3.61
Minimum cross-sectional area	Acp min.	mm²	3.17
Cross-sectional winding area of core	Acw	mm²	7.07
Weight (approx.)		g	0.6

EEM Series

EEM12.7/13.7 CORES



Dimensions in mm

TYPICAL CHARACTERISTICS

Part No.	AL-value(nH/N²) [10kHz, 10mV, 100Ts]
H5C3EEM12.7/13.7-Z	3000 min.

PARAMETER

Core factor	C1	mm⁻¹	2.27
Effective magnetic path length	ℓe	mm	27.3
Effective cross-sectional area	Ae	mm²	12.0
Effective core volume	Ve	mm³	328
Cross-sectional center pole area	Acp	mm²	11.1
Minimum cross-sectional area	Acp min.	mm²	10.3
Cross-sectional winding area of core	Acw	mm²	15.2
Weight (approx.)		g	1.9