DATA SHEET

Wideband chokes
EMI-suppression products

Supersedes data of September 2004 2008 Sep 01

FERROXCUBE
A YAGEO COMPANY

WIDEBAND CHOKES FOR EMI-SUPPRESSION

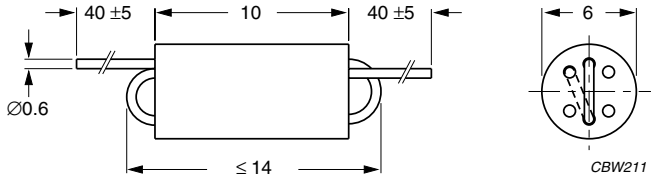
General data WBC1.5/A

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.1

GRADE	No. OF TURNS	$\|Z_{typ}\|$ at f		TYPE NUMBER
		(Ω)	(MHz)	
3S4	1.5	≥300	120	WBC1.5/A-3S4
4B1	1.5	≥350	250	WBC1.5/A-4B1
4S2	1.5	213(1)	10	WBC1.5/A-4S2
		400(1)	50	
		470(1)	100	

Note
1. Minimum guaranteed impedance is $|Z|_{typ}$ −20%.
2. Also available with insulated



Dimensions in mm.

Fig.1 WBC1.5/A.

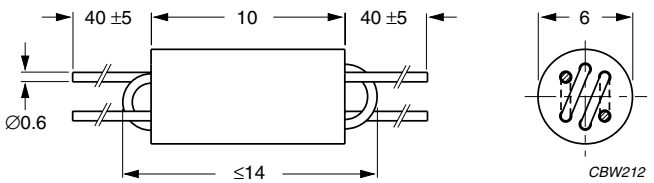
General data WBC1.5/1.5/A

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.2

GRADE	No. OF TURNS	$\|Z_{typ}\|$ at f		TYPE NUMBER
		(Ω)	(MHz)	
3S4	2 × 1.5	≥700(1)	50	WBC1.5/1.5/A-3S4
4B1	2 × 1.5	≥800(1)	110	WBC1.5/1.5/A-4B1
4S2	2 × 1.5	213(2)	10	WBC1.5/1.5/A-4S2
		400(2)	50	
		470(2)	100	
4A15	2 × 1.5	1000	50	WBC1.5/1.5/A-4A15
		1000	180	

Notes
1. $|Z|$ measured with both windings connected in series.
2. Minimum guaranteed impedance is $|Z|_{typ}$ −20%; measured with one winding.



Dimensions in mm.

Fig.2 WBC1.5/1.5/A.

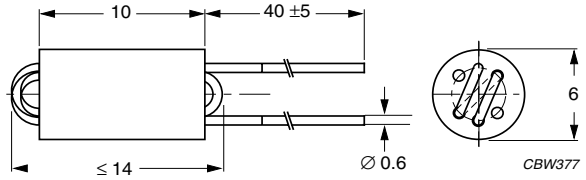
General data WBC2/R

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.3

GRADE	No. OF TURNS	$\|Z_{typ}\|$ (1) at f		TYPE NUMBER
		(Ω)	(MHz)	
4S2	2	300	10	WBC2/R-4S2
		650	50	
		600	100	
4A15	2	≥730	50	WBC2/R-4A15
		≥750	180	

Note
1. Minimum guaranteed impedance is $|Z|_{typ}$ −20%.



Dimensions in mm.

Fig.3 WBC2/R.

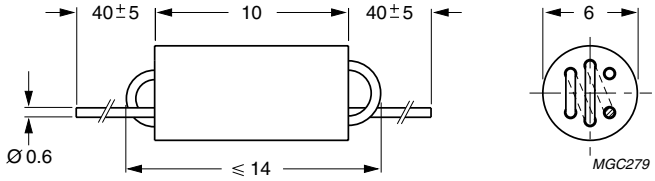
General data WBC2.5/A

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.4

GRADE	No. OF TURNS	$\|Z_{typ}\|$ at f		TYPE NUMBER
		(Ω)	(MHz)	
3S4	2.5	≥600	50	WBC2.5/A-3S4(2)
4B1	2.5	≥700	180	WBC2.5/A-4B1(2)
4S2	2.5	400(1)	10	WBC2.5/A-4S2
		850(1)	50	
		725(1)	100	
4A15	2.5	800	50	WBC2.5/A-4A15
		820	180	

Note
1. Minimum guaranteed impedance is $|Z|_{typ}$ −20%.
2. Also available with insulated wires, sleeves, encapsulated and taped and reeled.



Dimensions in mm.

Fig.4 WBC2.5/A.

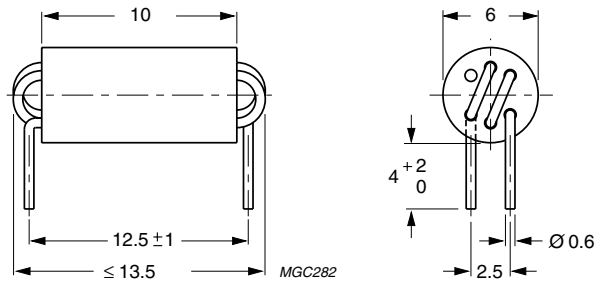
General data WBC2.5/R

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.5

GRADE	No. OF TURNS	$\|Z_{typ}\|$ at f		TYPE NUMBER
		(Ω)	(MHz)	
3S4	2.5	≥600	50	WBC2.5/R-3S4[1] sup
4B1	2.5	≥700	75	WBC2.5/R-4B1[2] sup
4S2	2.5	400	10	WBC2.5/R-4S2 sup
		850	50	
		725	100	

Note
1. Also available with insulated wires, sleeves and moulded.
2. Also available with insulated wires, sleeves.



Dimensions in mm.

Fig.5 WBC2.5/R.

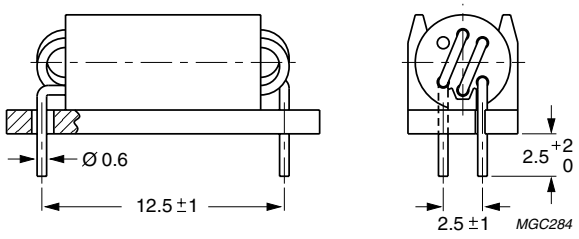
General data WBC2.5/SP

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Support	polyamide (PA6.6) plate to allow mounting across circuit tracks; flame retardant in accordance with UL 94V-0
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.6

GRADE note 1	No. OF TURNS	$\|Z_{typ}\|$ at f		TYPE NUMBER
		(Ω)	(MHz)	
3S4	2.5	≥600	50	WBC2.5/SP-3S4 sup
4B1	2.5	≥700	75	WBC2.5/SP-4B1 sup

Note
1. Colour code 3S4 = blue, 4B1 = green.



Dimensions in mm.

Fig.6 WBC2.5/SP.

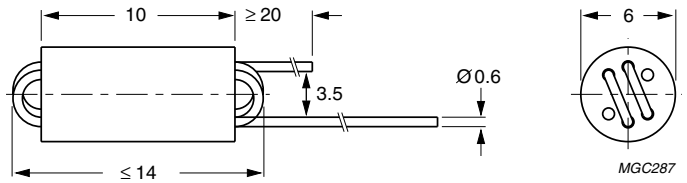
General data WBC3/R

ITEM	SPECIFICATION
Wire material	copper (Cu), tin (Sn) plated
Solderability	*"IEC 60068-2-20"*, Part 2, Test Ta, method 1

Grades, parameters and type numbers; see Fig.7

GRADE	No. OF TURNS	$\|Z_{typ}\|$ at f		TYPE NUMBER
		(Ω)	(MHz)	
3S4	3	≥650	63	WBC3/R-3S4[2]
4B1	3	≥800	110	WBC3/R-4B1[2]
4S2	3	500[1]	10	WBC3/R-4S2
		1000[1]	50	
		688[1]	100	
4A15	3	≥1000	50	WBC3/R-4A15
		≥1000	180	

Note
1. Minimum guaranteed impedance is $|Z|_{typ}$ −20%.
2. Also available with encapsulation and/or taped and reeled.



Dimensions in mm.

Fig.7 WBC3/R.

DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION
Prototype	prot	These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
Design-in	des	These products are recommended for new designs.
Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support	sup	These products are **not** recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.