RADIUS POWER

SOFT FERRITES

MATERIALS TABLE

PROPERTY	SYMBOL	UNIT	Temp (^oC)	MATERIAL					
				RP96	RP38	RP01	RP90	RP95	RP97
Initial Permeability	μ_{iac}	--	25	2000±20%	2100±20%	3000±20%	6000±20%	5000±20%	7000±20%
Saturation Flux Density	Bs (H=1kA/m)	Mt	25	500	480	490	400	400	400
			100	400	380	390	280	260	260
Residual Flux Density	Br	mT	25	210	180	200	150	150	150
Coercivity	Hc	A/m	25	16	15	15	10	12	12
Power Loss Density	Pc (16KHZ) 200 mT	Kw/m^3	25	≤ 120	--	≤ 100	--	--	--
			100	≤ 110	--	≤ 120	--	--	--
	Pc (25KHZ) 200 mT	Kw/m^3	25	≤ 160	--	≤ 150	--	--	--
			100	≤ 140	--	≤ 170	--	--	--
	Pc (100KHZ) 100 mT	Kw/m^3	25	--	≤ 120	--	--	--	--
			100	--	≤ 60	--	--	--	--
	Pc (100KHZ) 200 mT	Kw/m^3	25	--	≤ 700	--	--	--	--
			100	--	≤ 450	--	--	--	--
Relative Loss Factor	tan d/μ_{iac} 10 KHz	$x\ 10^{-6}$	25	≤ 4	≤ 2.5	≤ 2.5	≤ 5.0	≤ 5.0	≤ 7.0
Hysteresis Mat. Constant	nB	$x\ 10^{-6}$	25	--	--	--	<1.5	--	--
Relative Temp. Coefficient	aF	$x\ 10^{-6}$	25 - 55	--	--	--	--	--	--
Disaccom. Factor	Df	$x\ 10^{-6}$	25	--	--	--	--	--	--
Sec. Max. Permeability	SPM	oC	--	70-90	90-110	50-70	--	--	--
Curie temp.	Tc	oC	--	≥ 200	≥ 220	≥ 190	≥ 120	≥ 120	≥ 120
Resistivity	r	Wm	25	0.4	2-4	0.4	0.5	0.2	0.2
Density	d	Kg/m^3	25	$4.8x10^3$	$4.8x10^3$	$4.8x10^3$	$4.8x10^3$	$4.8x10^3$	$4.8x10^3$
Geometry	--	--	--	EE, EI, ETD, EER, EC, UU, TOROID	EE, EI, ETD, EFF, RM, PQ, PTS, UU	EE, EI, EER	EE, UU TOROID	EE, UU, EP, RM, TOROID	EE, UU TOROIDS

NOTES: 1. The Values are obtained with T 2512.

2. Initial Permeability, Relative Loss Factor and Curie Temperature are measured at f = 10KHz & B = 0.1 mT.

3. Disaccomodation factor - Done 10 minutes and 100 minutes after demagnetization.

Dimensions are shown for reference only.
Specifications are subject to change .

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