Laird

Smart Technology. Delivered.

Ferrite Plates for Wireless Charging

MP & 33 Series

FEATURES

- Ferrite materials are Wireless Power Consortium(WPC) listed, recommended & certified for interoperability test
- Optimized for highest charging efficiency
- Precise dimension control and automotive grade available
- -40℃ to 125℃ operating temperature
- Available in wide range of size selection, custom shapes are also available

APPLICATIONS

- Wireless charger for general consumer electronics,transmitter(TX) or receiver(RX)
- Aftermarket charging pads
- Wireless charger for Office,Residential, and Public Area applications
- Wireless charger embedded solution for automobile central console, arm-rest…ect.
- Power tools or any industrial devices that need power transmission without metallic contact

DIMENSIONS

PART NUMBER	A mm (inches)	B mm (inches)	C mm (inches)	Fig #
MP1040-3M0	26.42 (1.040)	26.42 (1.040)	2.25 (0.089)	1
MP1496-0M0	38.00 (1.496)	38.00 (1.496)	2.00 (0.079)	1
MP2106-0M0	53.00 (2.087)	53.00 (2.087)	2.50 (0.099)	1
MP2126-0M0	53.80 (2.118)	53.80 (2.118)	1.10 (0.043)	1
MP2170-1M0	47.20 (1.858)	55.20 (2.173)	2.50 (0.099)	1
MP3940-0M0	100.00 (3.937)	56.00 (2.205)	1.10 (0.043)	1
33P2098-0M0	53.30 (2.099)	53.30 (2.099)	2.50 (0.099)	1
33P3839-0M0	97.50 (3.839)	50.00 (1.969)	1.10 (0.043)	2

Figure 1

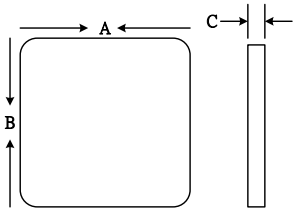
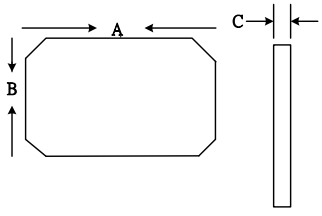


Figure 2



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Asia: +86.757.2563.8860

MCP-DS-PLATES REV1.1 0714

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PART NUMBER SYSTEM EXAMPLE

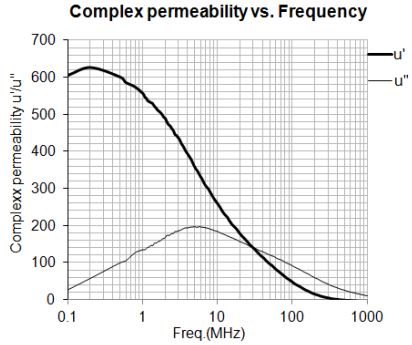
33	P	2098	-	0M0
M-28 Material 33-33 Material	Plate	Part Size Code		Thickness Code Catalog or Custom Information

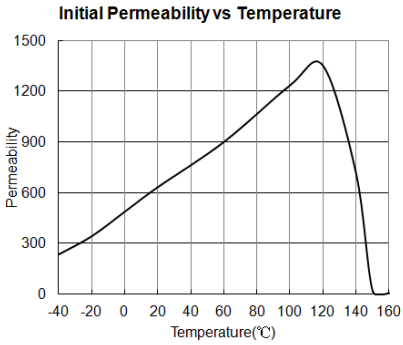
MATERIAL SPECIFICATIONS

Property	Symbol	Unit	28 Material (WPC Listed)	33 Material
Initial Permeability	μ_i		650	2300
Flux Density	B	mT [Gauss]	280 [2800]	390 [3900]
@ Field Strength	H	A/m [Oe]	800 [10]	800 [10]
Residual Field Strength	B_r	mT [Gauss]	130 [1300]	55 [550]
Coercive Strength	H_c	A/m [Oe]	32 [0.4]	9 [0.1]
Loss Factor @ Frequency	$\tan\delta/\mu_i$ f	10^{-6} MHz	500 0.1	6 0.1
Curie Temperature	T_c	℃	> 140	> 200
Resistivity	ρ	Ω-cm	10^5	$5x10^2$

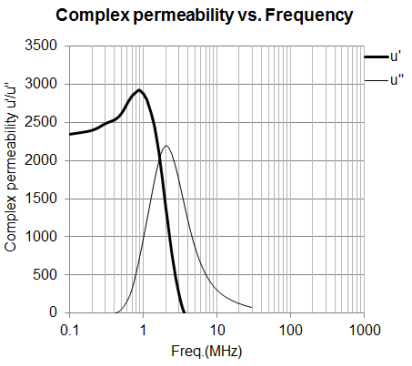
TYPICAL ELECTRICAL CHARACTERISTICS

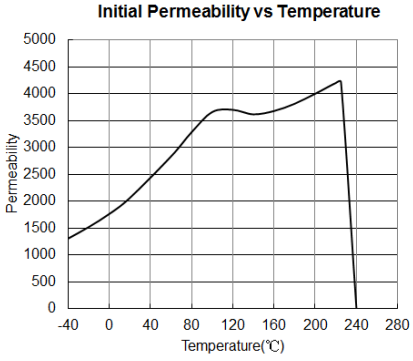
28 MATERIAL





33 MATERIAL





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