

Ferrite Plates for Wireless Charging

MP & 33 Series



FEATURES ROHS





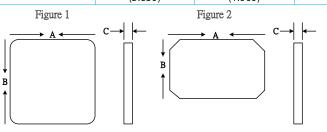
- Ferrite materials are Wireless Power Consortium(WPC) listed, recommended & certified for interoperability test
- Optimized for highest charging efficiency
- Precise dimension control and automotive grade available
- -40°C to 125°C operating temperature
- Available in wide range of size selection, custom 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 #	
MD1040 2M0	26.42	26.42	2.25	1	
MP1040-3M0	(1.040)	(1.040)	(0.089)	'	
MD1406 OMO	38.00	38.00	2.00	1	
MP1496-0M0	(1.496)	(1.496)	(0.079)	•	
MD2106 OMO	53.00	53.00	2.50	1	
MP2106-0M0	(2.087)	(2.087)	(0.099)	'	
MD212C 0M0	53.80	53.80	1.10	1	
MP2126-0M0	(2.118)	(2.118)	(0.043)	'	
MD2170 1MO	47.20	55.20	2.50	1	
MP2170-1M0	(1.858)	(2.173)	(0.099)	'	
MD2040 0M0	100.00	56.00	1.10	1	
MP3940-0M0	(3.937)	(2.205)	(0.043)	'	
2202000 0000	53.30	53.30	2.50	1	
33P2098-0M0	(2.099)	(2.099)	(0.099)		
2202020 000	97.50	50.00	1.10	2	
33P3839-0M0	(3.839)	(1.969)	(0.043)	2	



USA: +1.423.308.1690 Europe: +42.0.4885.7511.1 Asia: +86.757.2563.8860



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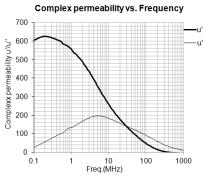
PART NUMBER SYSTEM EXAMPLE

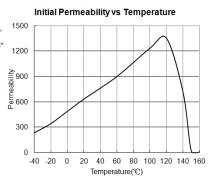
<u>33</u>	<u>P</u>	<u>2098</u> -	<u>0M0</u>
M-28 Material	Plate	Part Size Code	Thickness Code
33-33 Material			Catalog or Custom Information

MATERIAL SPECIFICATIONS

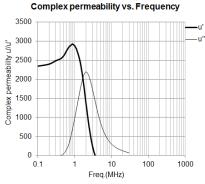
Property	Symbol	Unit	28 Material (WPC Listed)	33 Material
Initial Permeability	μ_{i}		650	2300
Flux Density	В	mT [Gauss]	280 [2800]	390 [3900]
@ Field Strength	Н	A/m [Oe]	800 [10]	800 [10]
Residual Field Strength	B_r	mT [Gauss]	130 [1300]	55 [550]
Coercive Strength	H_c	A/m [Oe]	32 [0.4]	9 [0.1]
Loss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

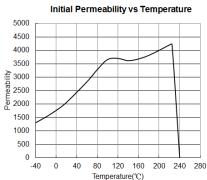
TYPICAL ELECTRICAL CHARACTERISTICS 28 MATERIAL





33 MATERIAL





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MCP-DS-PLATES REV1.1 0714

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