



# **KARSON ELECTRONIC LTD.**

Manufacturer and Supplier of Iron Powder Cores

## **KARSON Material 8/90-200 Characteristic**

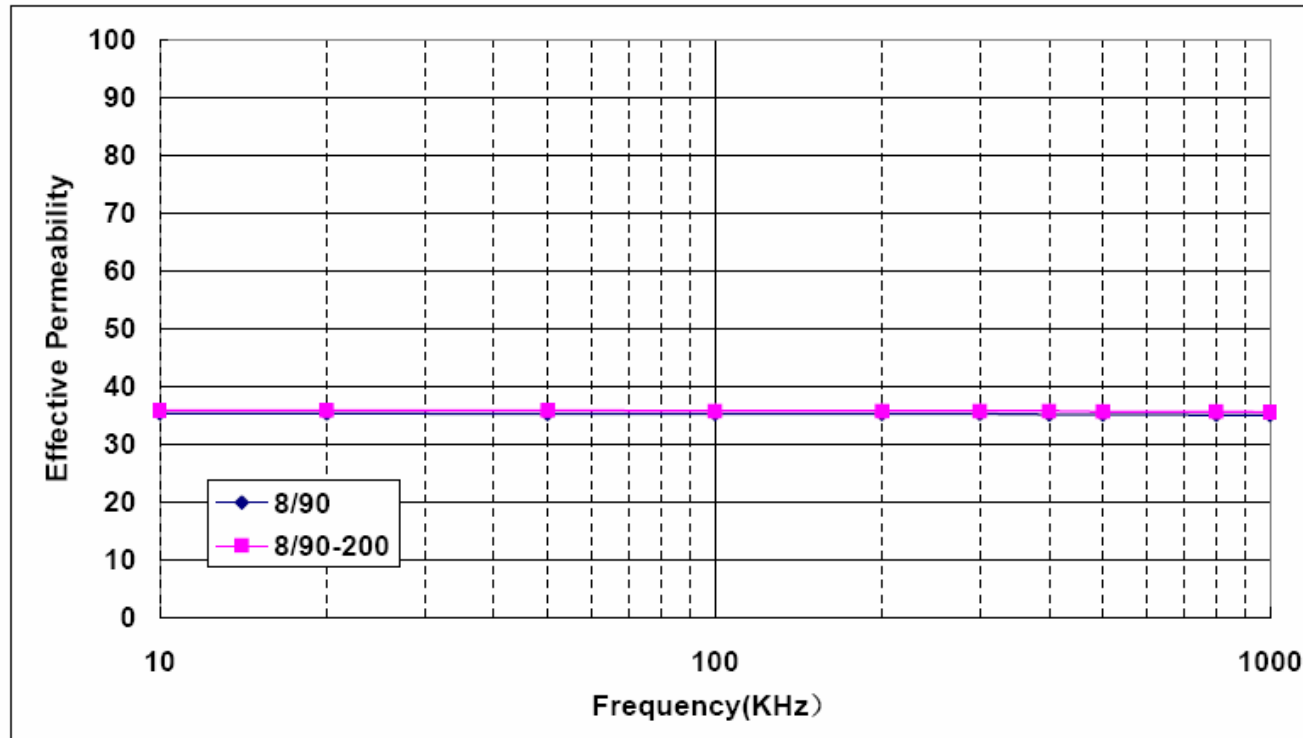
- **Effective Permeability VS Frequency**
- **Initial Permeability VS DC Magnetizing Force**
- **Initial Permeability VS Peak AC Flux Density**
- **Core Loss**
- **Initial Permeability VS Temperature**
- **Thermal Aging**
- **Use Temperature and Curie Temperature**



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## ◆ Effective Permeability VS Frequency



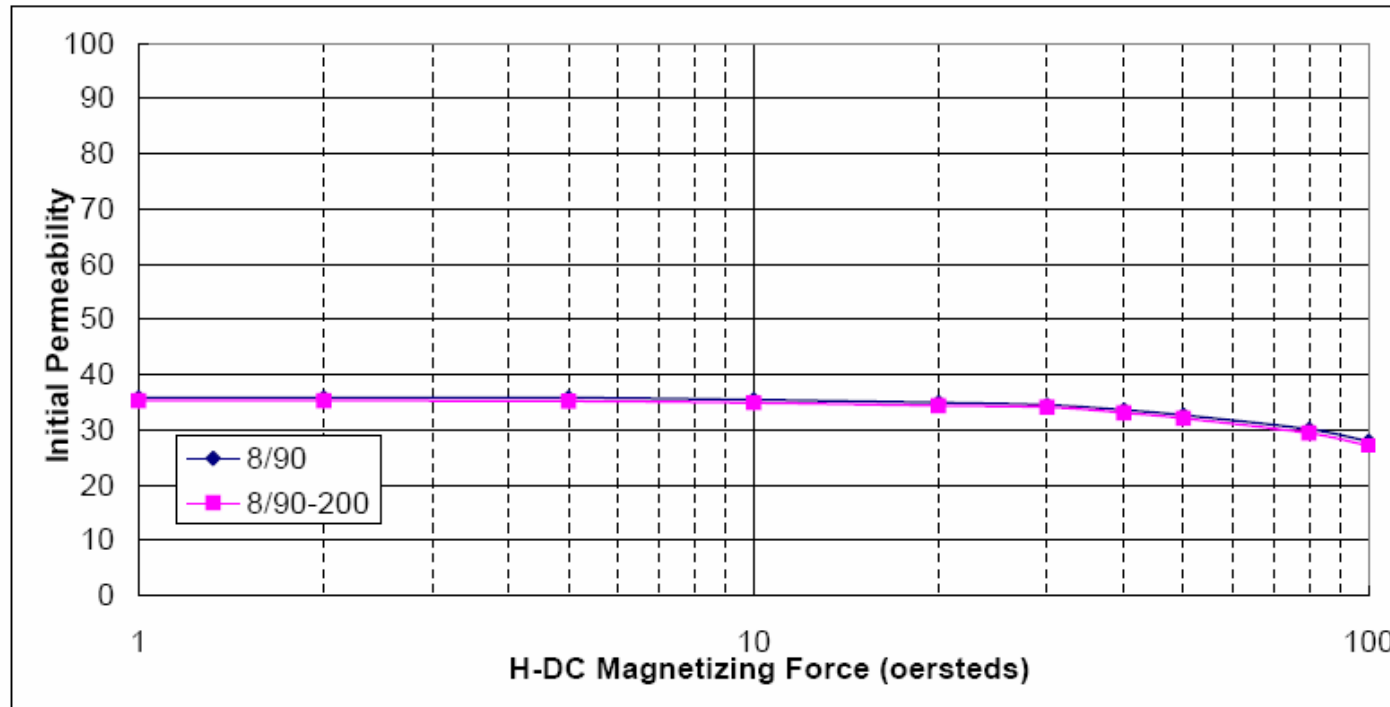
Mix No		F(KHz)									
		10	20	50	100	200	300	400	500	800	1000
ui	8/90	35.3	35.3	35.2	35.2	35.2	35.2	35.1	35.1	35.0	35.0
	8/90-200	35.8	35.8	35.8	35.7	35.7	35.7	35.7	35.6	35.6	35.5
	Difference	1.4%	1.4%	1.7%	1.4%	1.4%	1.4%	1.7%	1.4%	1.7%	1.4%



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## ◆ Initial Permeability VS DC Magnetizing Force



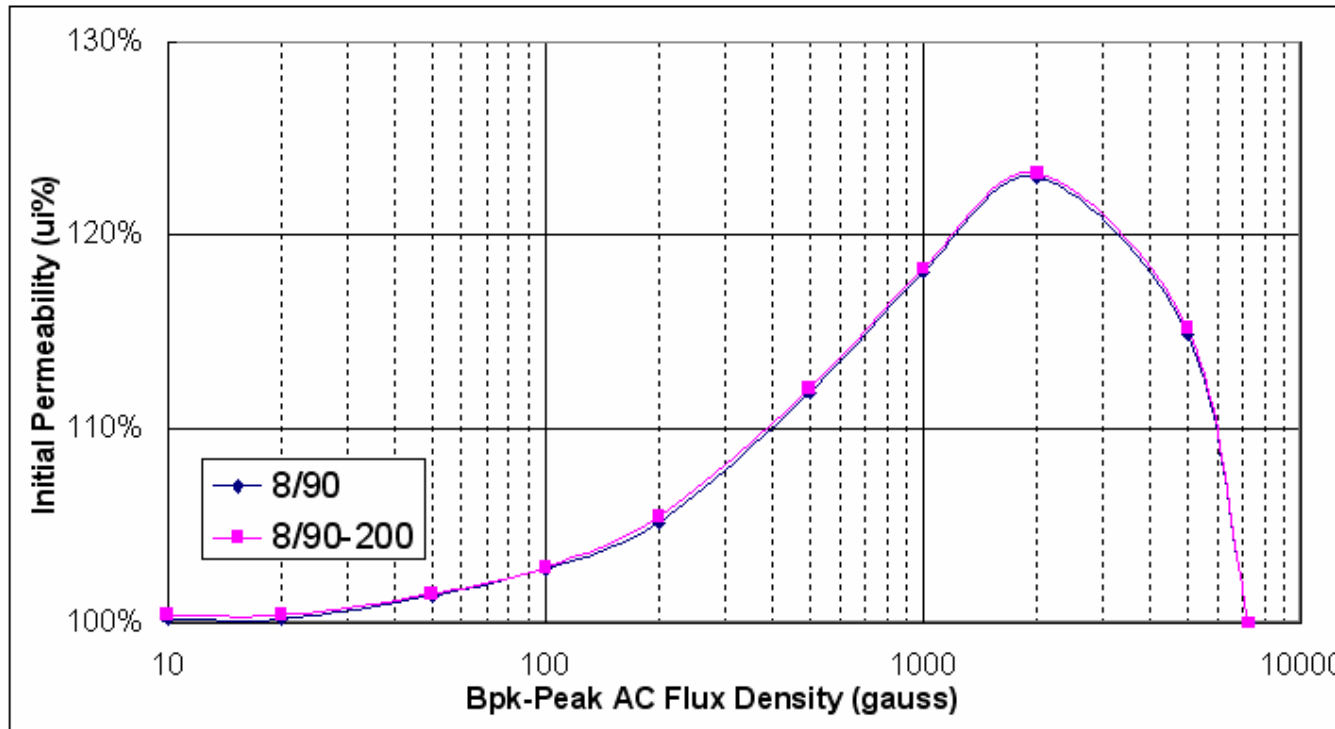
H-DC Mix No		1	2	5	10	20	30	40	50	80	100
		8/90	35.8	35.8	35.8	35.5	34.9	34.5	33.6	32.7	30.1
ui	8/90-200	35.3	35.3	35.2	34.9	34.4	34.1	33.1	32.1	29.4	27.1
	Difference	-1.4%	-1.4%	-1.7%	-1.6%	-1.5%	-1.2%	-1.5%	-1.7%	-2.3%	-3.0%



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## ◆ Initial Permeability VS Peak AC Flux Density



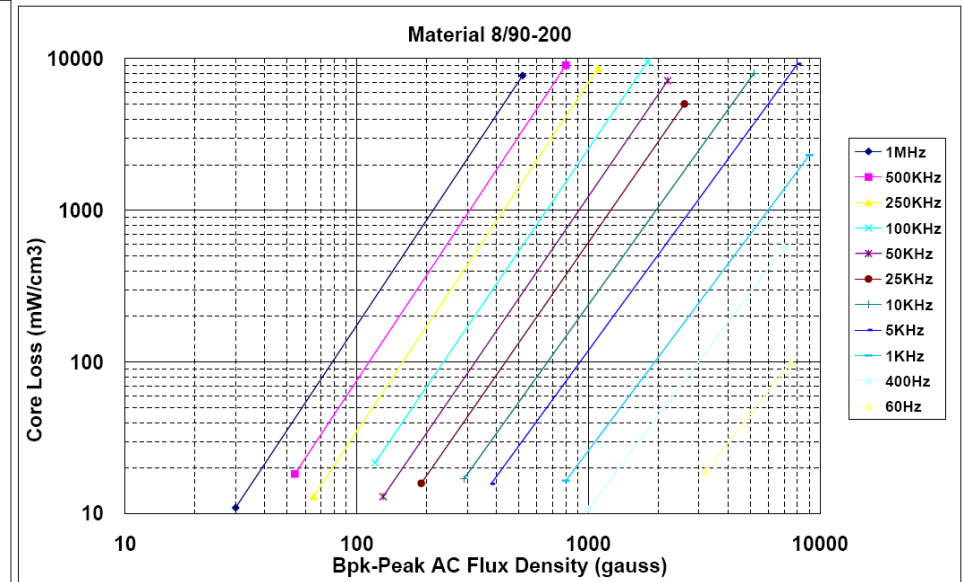
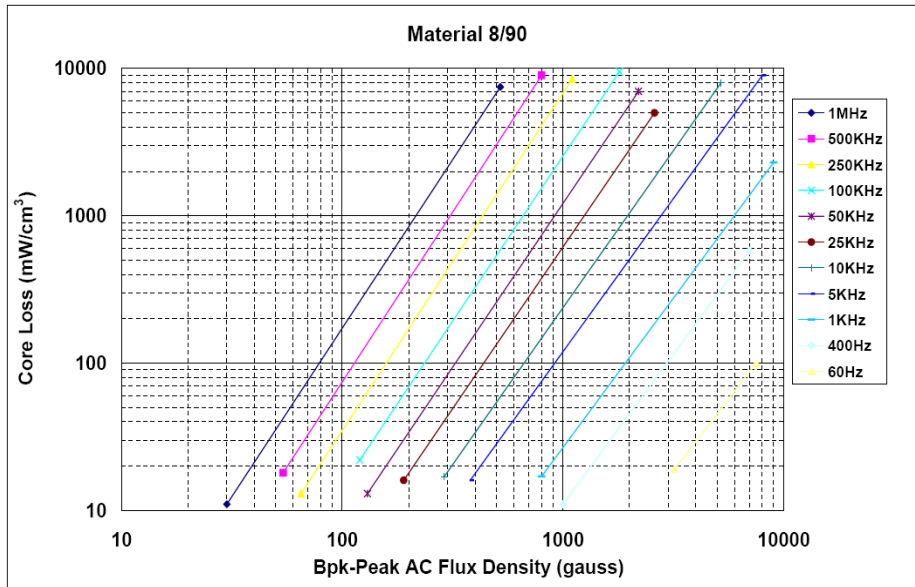
H-DC Mix No		10	20	50	100	200	500	1000	2000	5000	7275
		8/90	100.2%	100.2%	101.4%	102.8%	105.2%	111.9%	118.1%	123.0%	114.9%
8/90-200	100.4%	100.4%	101.5%	102.9%	105.5%	112.1%	118.3%	123.2%	115.2%	100.0%	
Difference	0.2%	0.2%	0.1%	0.1%	0.3%	0.2%	0.2%	0.2%	0.2%	0.3%	0.0%



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## ◆ Core Loss

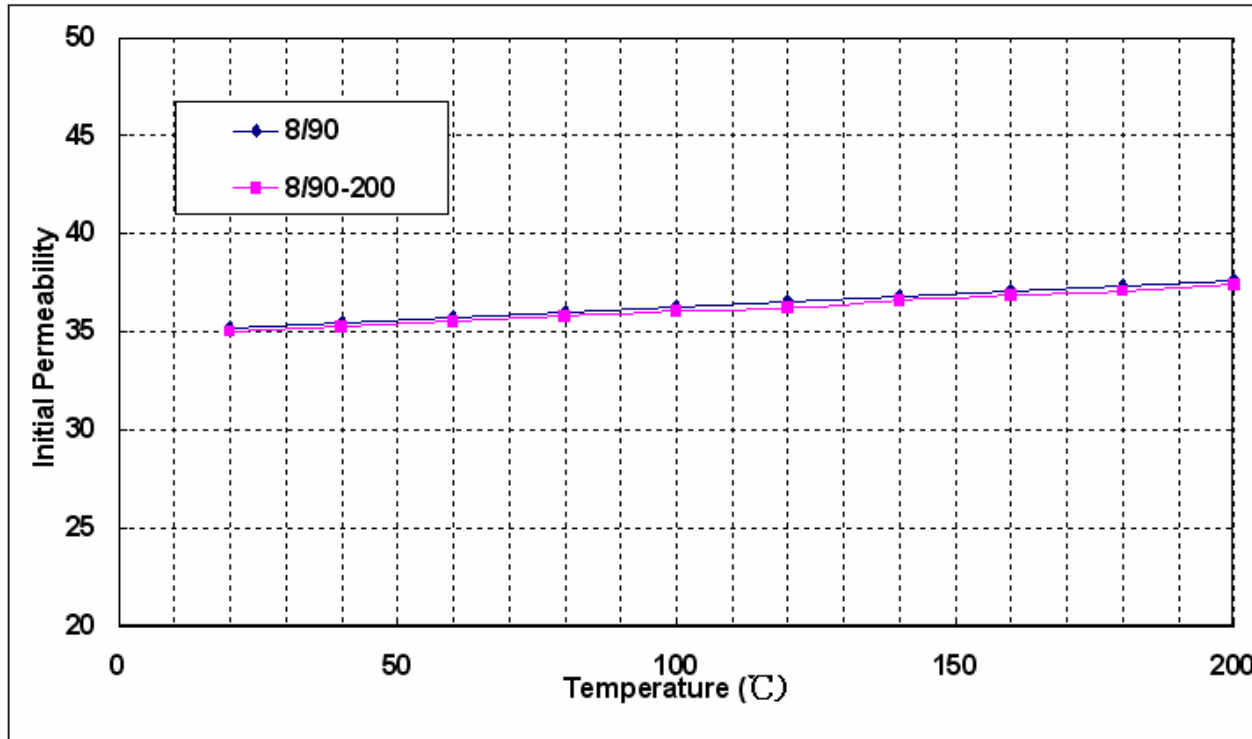




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## ◆ Initial Permeability VS Temperature



Temp(°C) Mix No		20	40	60	80	100	120	140	160	180	200
		8/90	35.24	35.51	35.77	36.04	36.31	36.57	36.84	37.10	37.37
ui	8/90-200	35.01	35.27	35.54	35.80	36.07	36.22	36.60	36.86	37.08	37.39
	Difference	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-1.0%	-0.7%	-0.7%	-0.8%	-0.7%



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## ◆ Thermal Aging

Operation Temperature vs. Time

