

KARSON Material 38-200 Characteristic

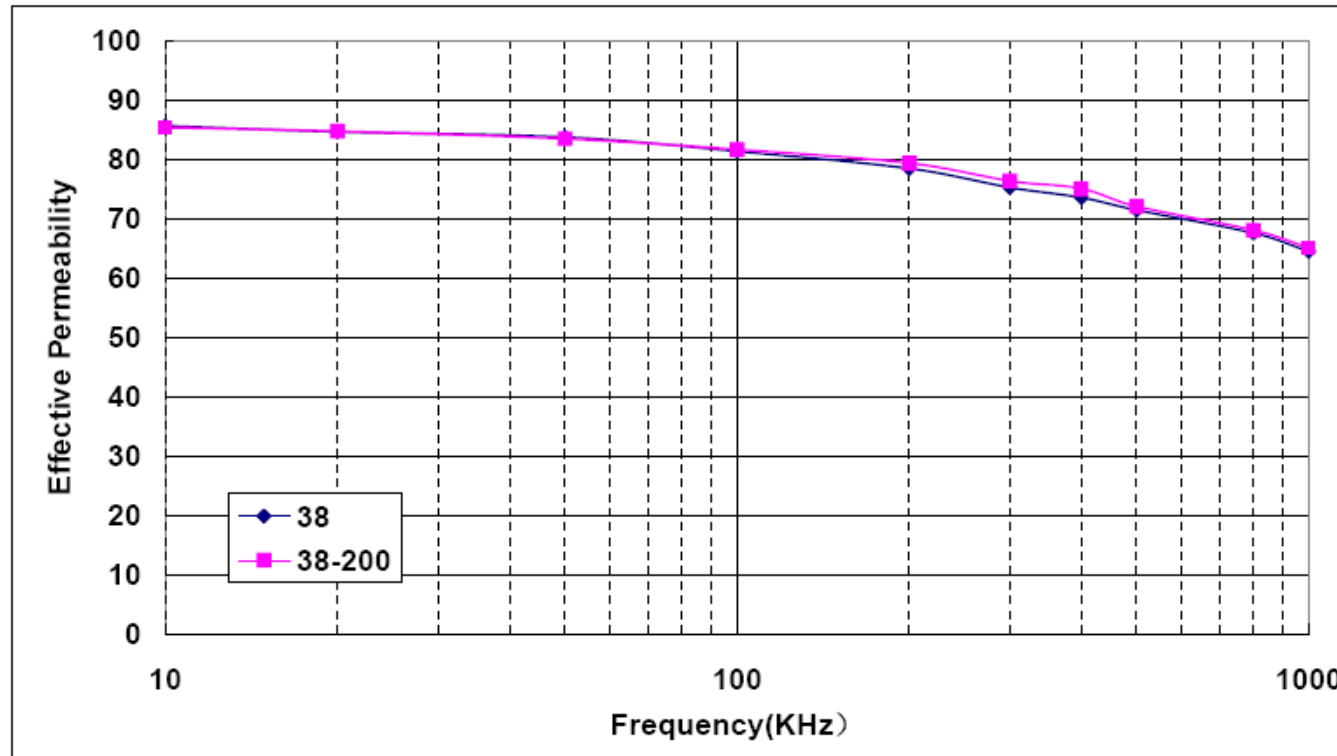
- **Effective Permeability VS Frequency**
- **Initial Permeability VS DC Magnetizing Force**
- **Initial Permeability VS Peak AC Flux Density**
- **Core Loss**
- **Initial Permeability VS Temperature**
- **Thermal Aging**
- **Use Temperature and Curie Temperature**



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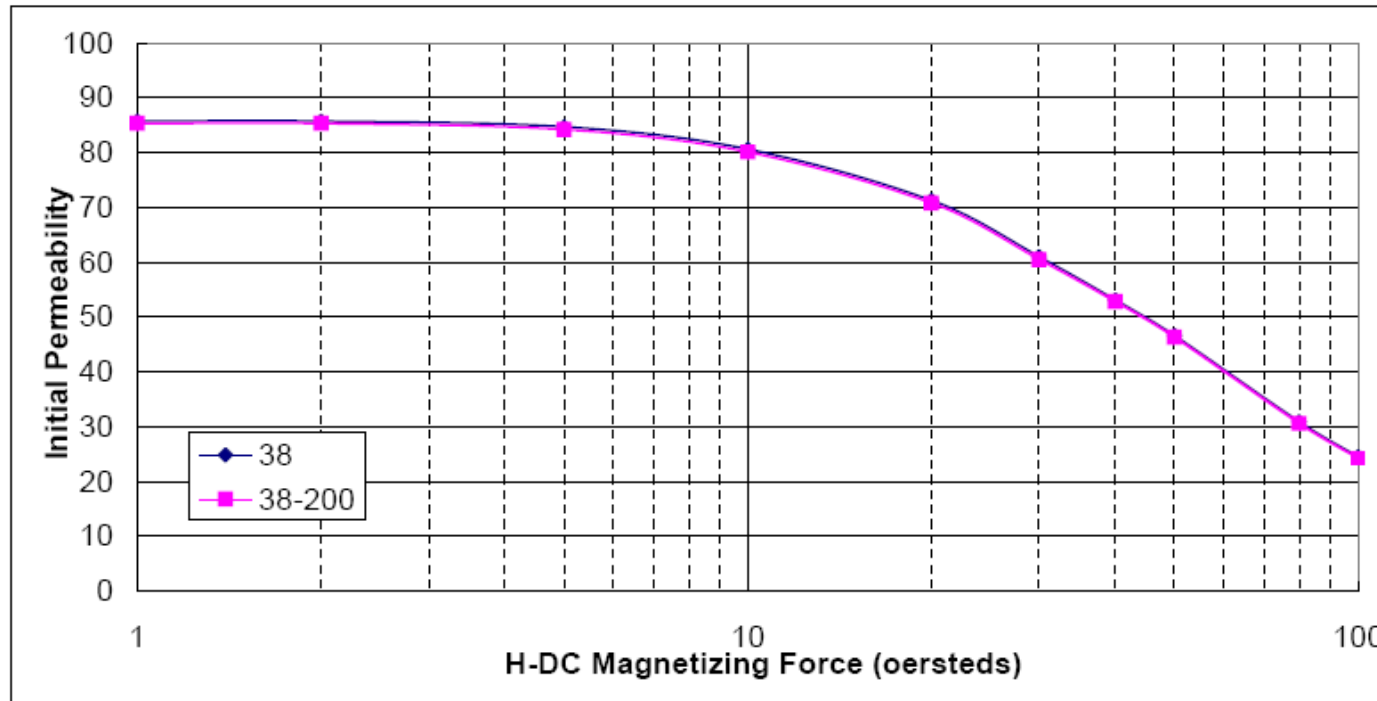
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◆ Effective Permeability VS Frequency



F(KHz) Mix No		10	20	50	100	200	300	400	500	800	1000
		38	85.7	84.7	83.8	81.4	78.5	75.3	73.6	71.5	67.6
ui	38-200	85.4	84.8	83.5	81.7	79.4	76.4	75.1	72.1	68.1	65.1
	Difference	-0.4%	0.1%	-0.4%	0.4%	1.1%	1.5%	2.0%	0.8%	0.7%	0.9%

◆ Initial Permeability VS DC Magnetizing Force



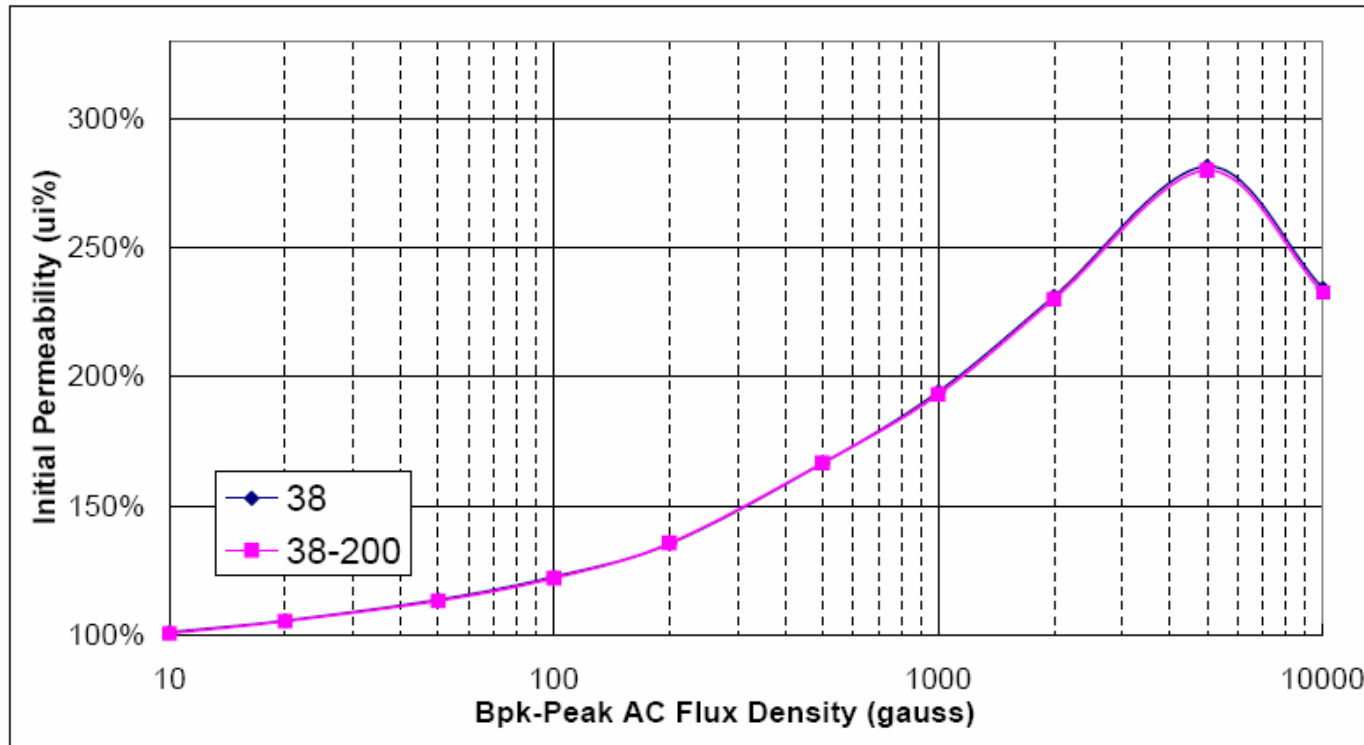
H-DC Mix No		1	2	5	10	20	30	40	50	80	100
		38	85.7	85.7	84.7	80.6	71.3	61.0	53.1	46.6	30.9
ui	38-200	85.3	85.3	84.2	80.1	70.8	60.5	52.8	46.3	30.6	24.2
	Difference	-0.5%	-0.5%	-0.6%	-0.6%	-0.6%	-0.8%	-0.6%	-0.6%	-1.0%	-1.2%



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◆ Initial Permeability VS Peak AC Flux Density



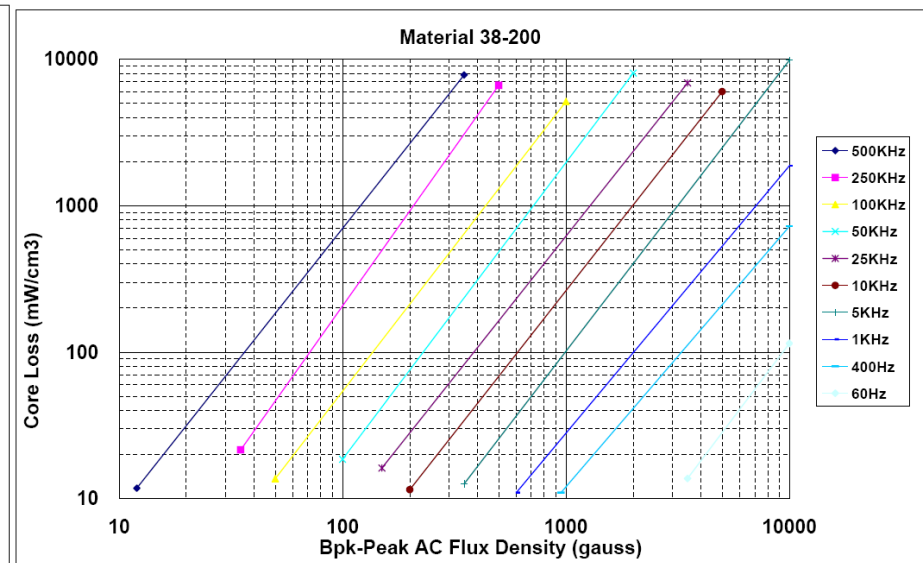
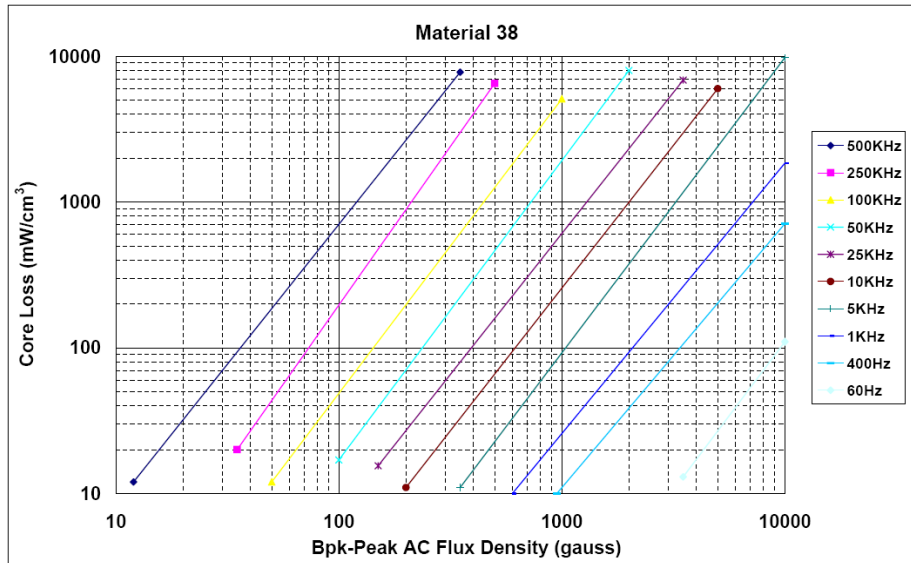
H-DC Mix No		H-DC									
		10	20	50	100	200	500	1000	2000	5000	10000
ui	38	100.8%	105.4%	113.5%	122.4%	135.2%	166.4%	194.2%	231.2%	281.6%	234.3%
	38-200	100.4%	105.1%	113.0%	121.8%	135.4%	166.5%	193.1%	230.1%	280.1%	232.5%
	Difference	-0.4%	-0.3%	-0.4%	-0.5%	0.1%	0.1%	-0.6%	-0.5%	-0.5%	-0.8%



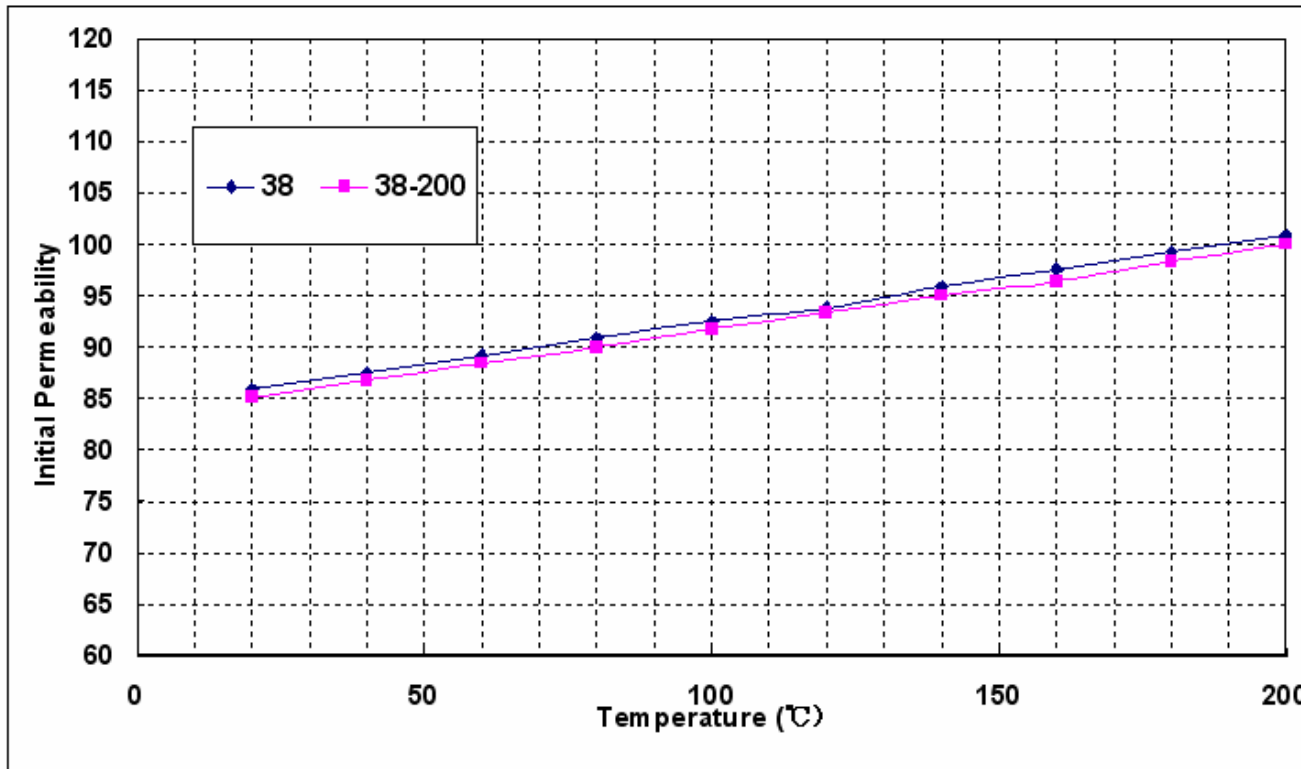
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◆ Core Loss



◆ Initial Permeability VS Temperature



Temp(°C) Mix No		20	40	60	80	100	120	140	160	180	200
		38	85.92	87.59	89.26	90.93	92.60	93.85	95.94	97.61	99.28
38-200	85.15	86.81	88.46	90.01	91.77	93.43	95.08	96.42	98.39	100.05	
Difference	-0.9%	-0.9%	-0.9%	-1.0%	-0.9%	-0.5%	-0.9%	-1.2%	-0.9%	-0.9%	



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◆ Thermal Aging

Operation Temperature vs. Time

