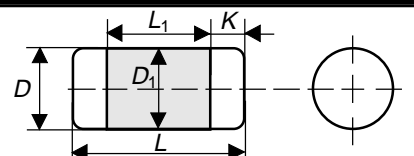


Data Sheet

BEYSCHLAG Thin Film MICRO-MELF Inductor

IMU 0102

Mechanical Dimensions

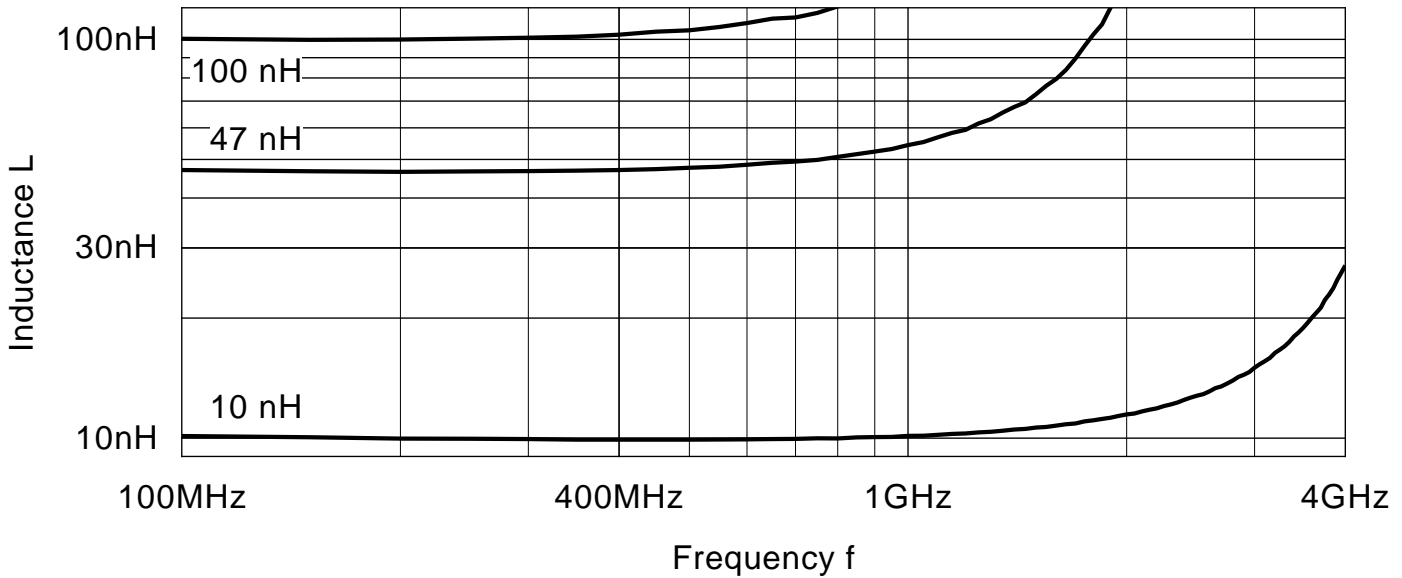
Style	D max mm	D ₁		L max mm	L ₁ min mm	K		
		min mm	max mm			min mm	max mm	
IMU 0102	1,1	1,06	1,1	2,2	1,2	0,35	0,45	

Electrical Data

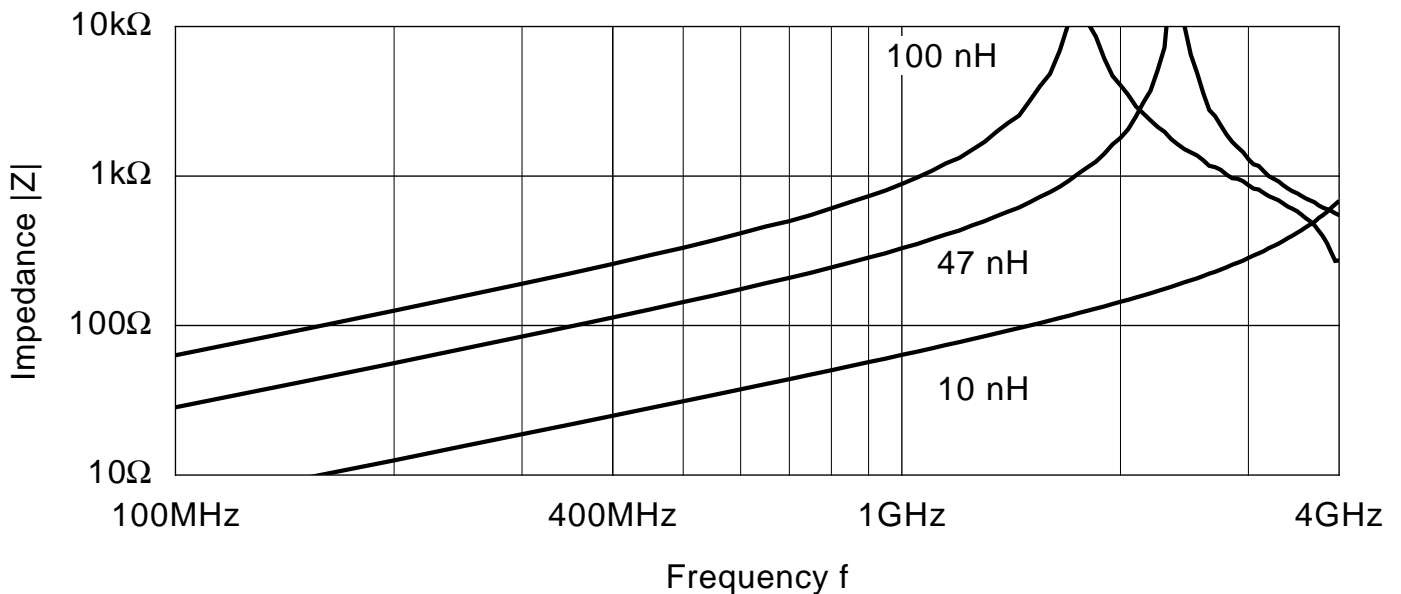
Inductance		Quality Factor at 100 MHz Q	DC Resistance R _{DC} / Ω	SRF f ₀ / MHz	Rated Current I _{DC} / mA
Value L / nH	Tolerance %				
3,3	± 0,2 nH / 10 %	≥ 6	< 0,2	> 4000	450
3,9	± 5 / 10		< 0,2	> 4000	450
4,7			< 0,25	> 4000	400
5,6			< 0,25	> 4000	400
6,8			< 0,3	> 4000	360
8,2		≥ 6	< 0,3	> 4000	360
10		≥ 8	< 0,35	> 4000	330
12			< 0,35	> 4000	330
15			< 0,4	4000	310
18			< 0,5	3700	280
22			< 0,7	3300	240
27			< 0,8	3000	220
33		≥ 8	< 1,0	2700	200
39		≥ 10	< 1,2	2500	180
47			< 1,6	2300	160
56			< 2,2	2100	140
68			< 2,6	1900	130
82			< 3,6	1700	110
100	± 5 / 10	≥ 10	< 4,0	1500	100

Inductance Value nH	Operating Temperature Range °C	Permissible Voltage against Ambient		Insulation Resistance Ω
		1 minute V	continuous V	
all values	-55 to +125	150	75	>10 ¹⁰

Inductance vs. Frequency



Impedance vs. Frequency



Order Code Example

	I	M	U	0102	10 %	BL	10 N	
Film type								Inductance Value
I = Inductor, Film								10 nH
Contact form								Packaging*
M = MELF								BL = 3 000 pieces in blistertape on reel
BEYSCHLAG style								B1 = 1 000 pieces in blistertape on reel
DIN style								B0 = 10 000 pieces in blistertape on reel
								Tolerance
								10 %

* Blister tape on reel according to IEC 60286-3 type II