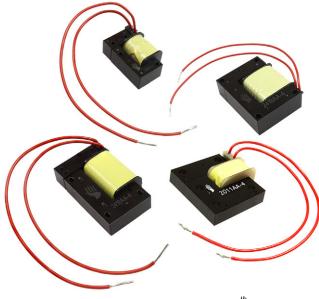
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Vishay Custom Magnetics

IHPT[™] Haptic Feedback Actuator With Immersion License



🖞 immersion.

LINKS TO ADDITIONAL RESOURCES



3D M

FEATURES

- High impulse vibrations for clear tactile feedback in noisy environments
- Drives 0.5 kg load to 6 g's of acceleration with 12 V, 5 ms pulse (tested with Vishay's custom spring return fixture)



GREEN

(5-2008)

- Standard lead termination is dipped 100 % tin solder: customer specific connectors available upon request
- Two-piece magnetic solenoid construction with mounting holes; comprised of stationary "U" core and moving "I-bar"
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Touch screens
- · Appliances, industrial equipment, factory automation and control
- Touch screens for human-machine interfaces

STANDARD ELECTRICAL SPECIFICATIONS									
PART NUMBER	FORCE OUTPUT (N)	FORCE COEFFICIENT ⁽¹⁾	RESPONSE TIME TYP. (ms)	L ₀ INDUCTANCE ± 20 % AT 1 kHz, 0.25 V, 0 A (mH)	DCR TYP. (Ω)	DCR MAX. (Ω)			
IHPT1207AGELR39AB0	25	0.39	5	1.35	0.95	1.04			
IHPT1710ACEL1R2AB0	45	1.2	5	4.04	2.0	2.2			
IHPT1411AFELR73AB0	80	0.73	5	1.8	0.95	1.09			
IHPT1614ACEL2R7BB0	120	2.7	5	3.5	1.2	1.32			

Notes

- All specifications are referenced to 25 °C ambient, and assume a 0.75 mm (0.030") gap
- Operating temperature range -40 °C to +105 °C
- The part temperature (ambient + temperature rise) should not exceed 105 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated voltage: 16 V maximum
- Dielectric withstand voltage (coil to core) = 150 V_{DC}
- ⁽¹⁾ Applied force, in newtons, can be estimated by the following equation: $F = FORCE COEFFICIENT \times I_{PK}^2$

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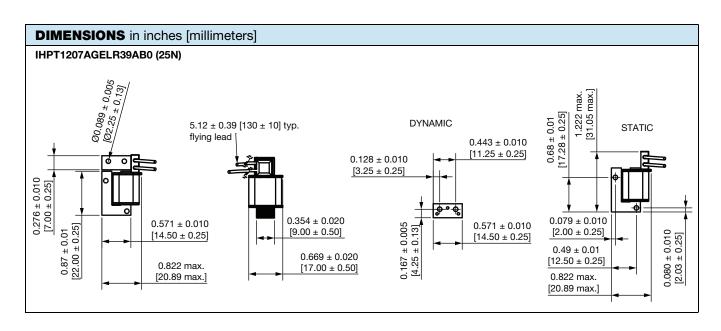
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GL	GLOBAL PART NUMBER																	
	1	н	Р	т	1	4	1	1	Α	F	E	L	R	7	3	Α	В	0
	PR	ODUC	T FAN	IILY			SI	ZE			-	KAGE DE		FORC EFFICI			SERIE	S
											EL = in Immersio	icludes in license		73 = 0.	.73			

DESCRIPTION			
IHPT-1411AF	R73	TRAY	e3
MODEL	FORCE COEFFICIENT	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD

MATERIAL			
Core	Laminated steel		
Wire	Copper, PU/PA insulated		
Solder	Hot dip tin		

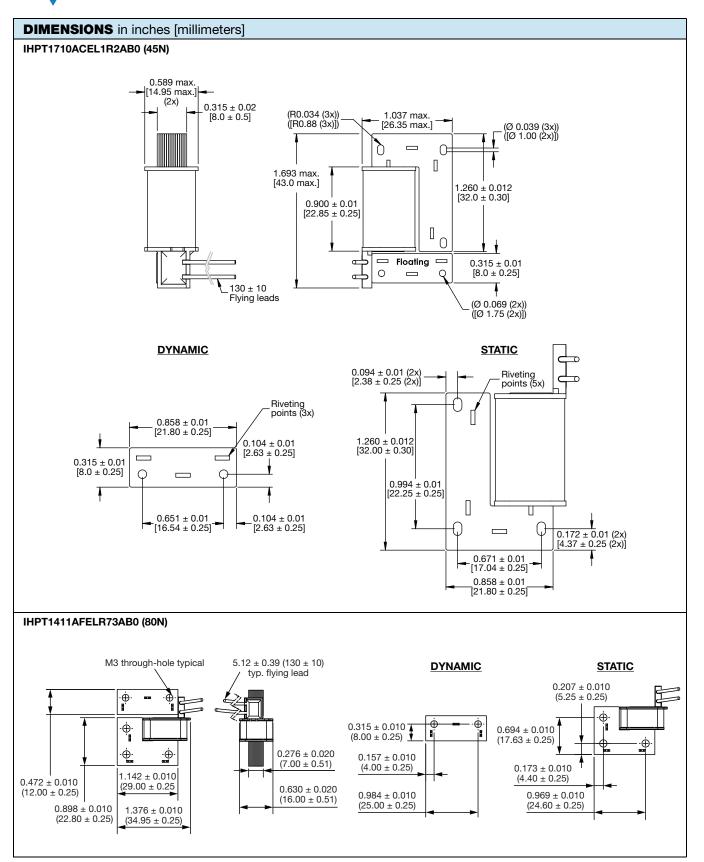
SOLDER COMPOSITION				
Sn	99.3 %			
Cu	0.7 %			



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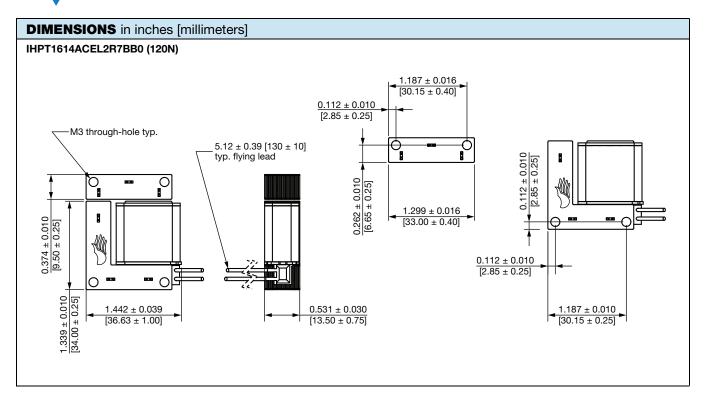
3 For technical questions, contact: <u>magnetics@vishay.com</u> Document Number: 34508

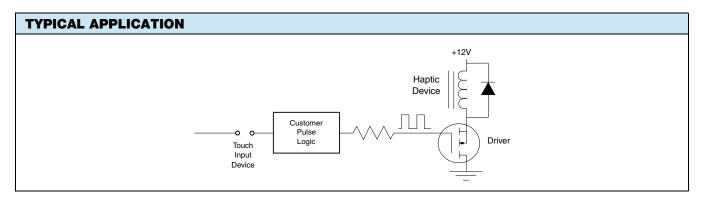
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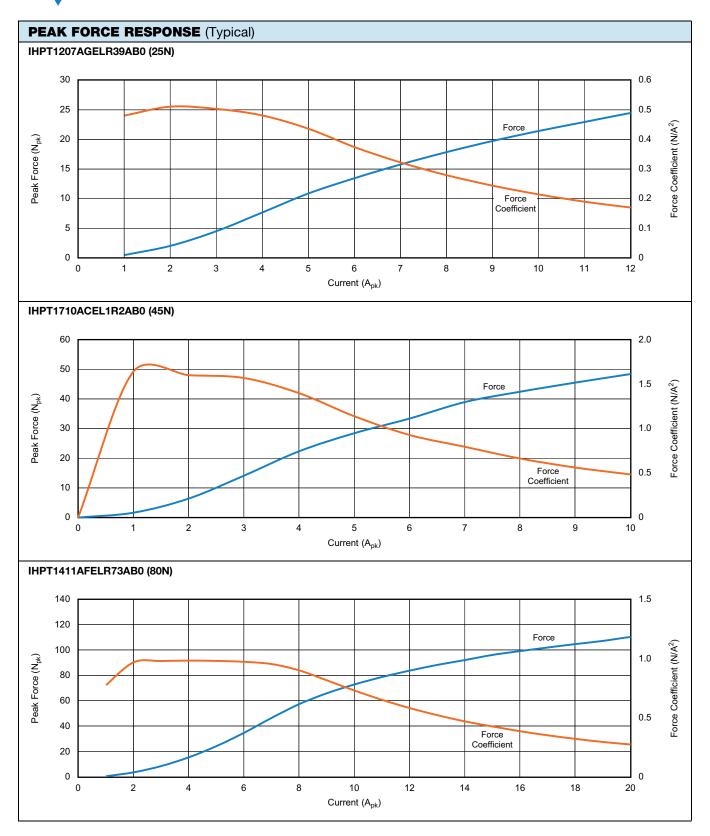




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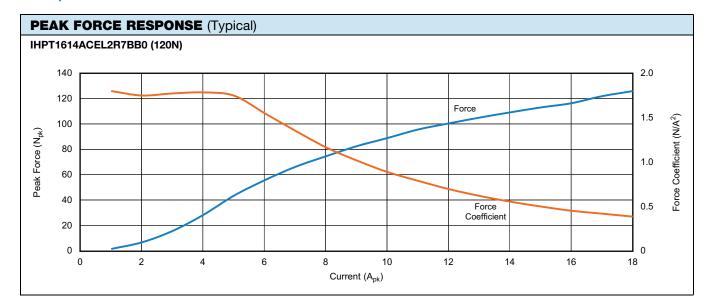
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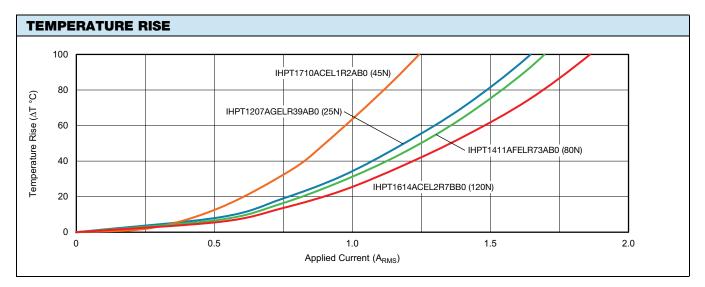
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