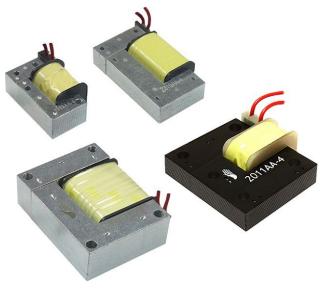
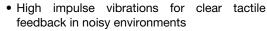


## IHPT™ Haptic Feedback Actuator With Immersion License





#### **FEATURES**





 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)



(5-2008)

 Standard lead termination is dipped 100 % tin solder; customer specific connectors available upon request

- upon request

  Two-piece magnetic solenoid construction with mounting
- Iwo-piece magnetic solenoid construction with mounting holes; comprised of stationary "U" core and moving "I-bar"
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>

#### **APPLICATIONS**

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

### **LINKS TO ADDITIONAL RESOURCES**





STANDARD ELECTRICAL SPECIFICATIONS							
PART NUMBER	FORCE OUTPUT (N)	FORCE COEFFICIENT (1)	RESPONSE TIME TYP. (ms)	L <sub>0</sub> 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	

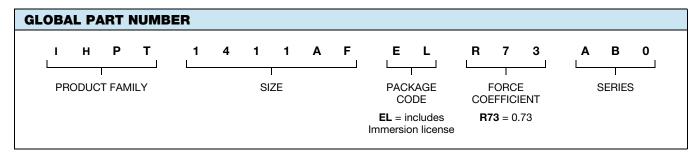
#### Notes

- 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<sub>DC</sub>
- (1) Applied force, in newtons, can be estimated by the following equation:  $F = FORCE COEFFICIENT \times I_{PK}^2$

This product is covered by a license from Immersion or its affiliates solely when incorporated into haptic products in an authorized field of use as set forth in more detail at the following link: <a href="www.vishay.com/doc?34602">www.vishay.com/doc?34602</a>. Protected under one or more of the U.S. Patents found at the following address <a href="www.immersion.com/patent-marking.html">www.vishay.com/doc?34602</a>. Protected under one or more of the U.S. Patents found at the following address <a href="www.immersion.com/patent-marking.html">www.immersion.com/patent-marking.html</a> and other patents.



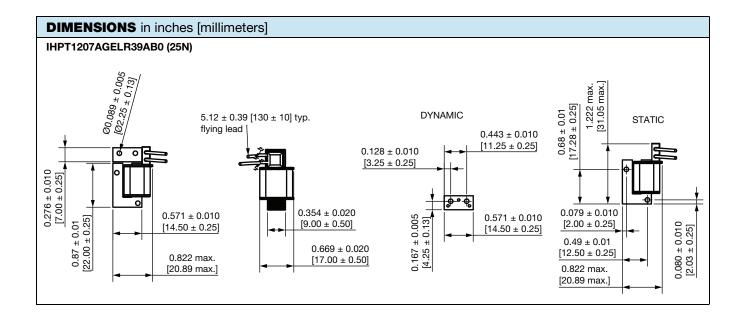


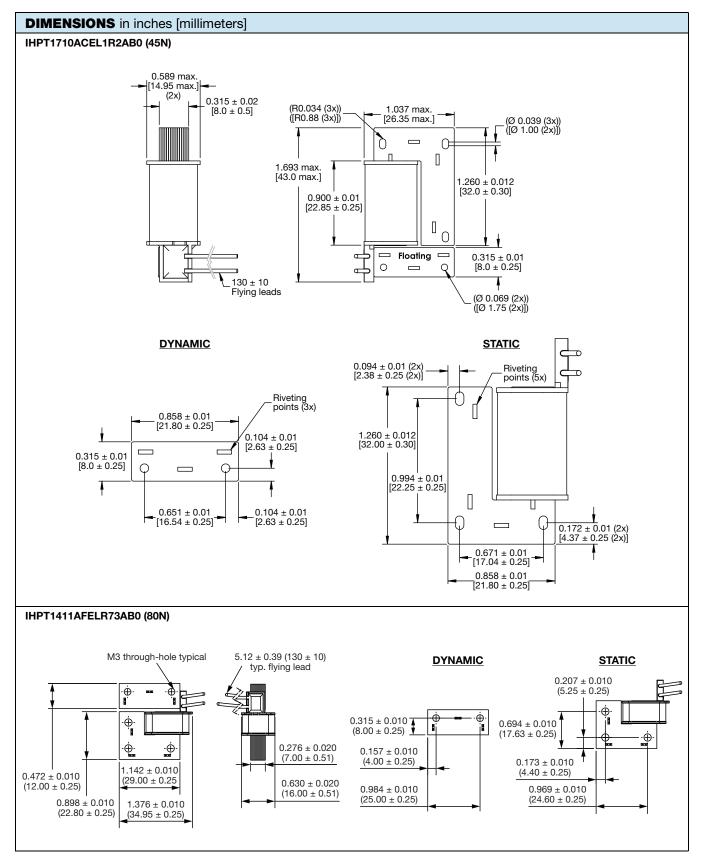


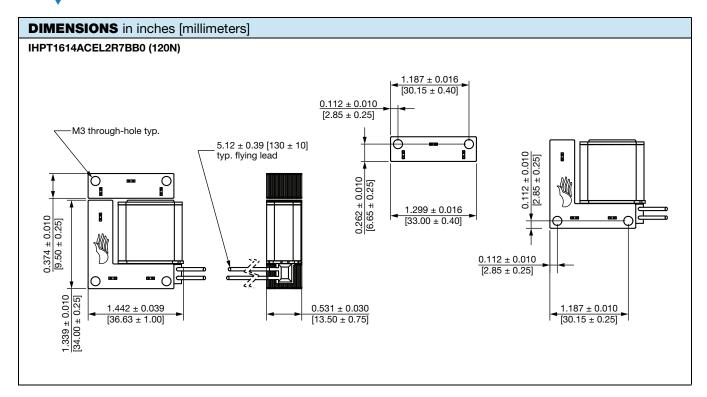
DESCRIPTION			
IHPT-1411AF	R73	TRAY	e3
MODEL	FORCE COEFFICIENT	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

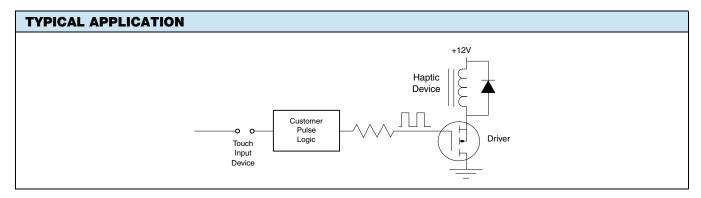
MATERIAL		
Core	Laminated steel	
Wire	Copper, PU/PA insulated	
Solder	Hot dip tin	

SOLDER COMPOSITION		
Sn	99.3 %	
Cu	0.7 %	



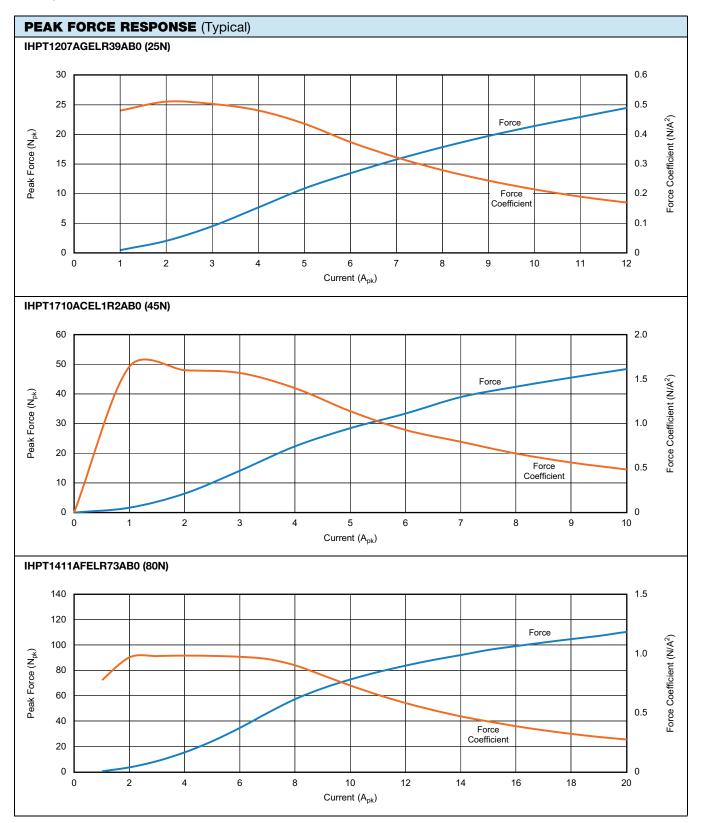






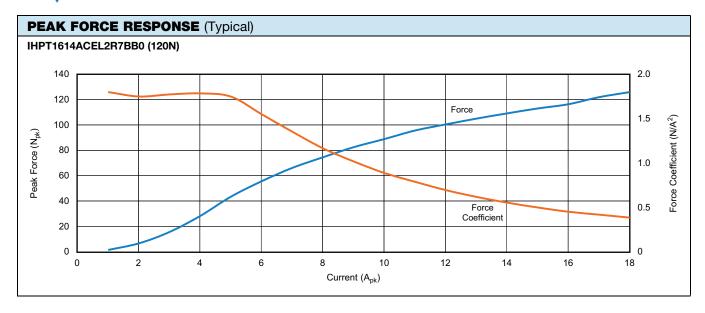


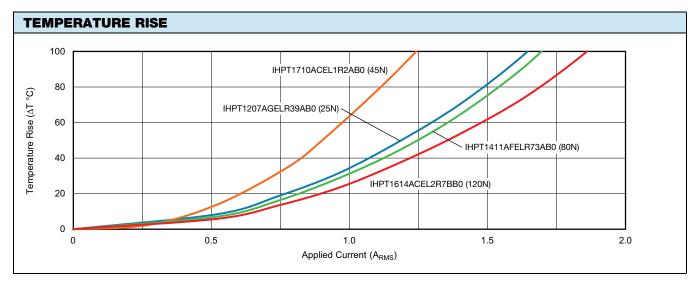














### **Legal Disclaimer Notice**

Vishay

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