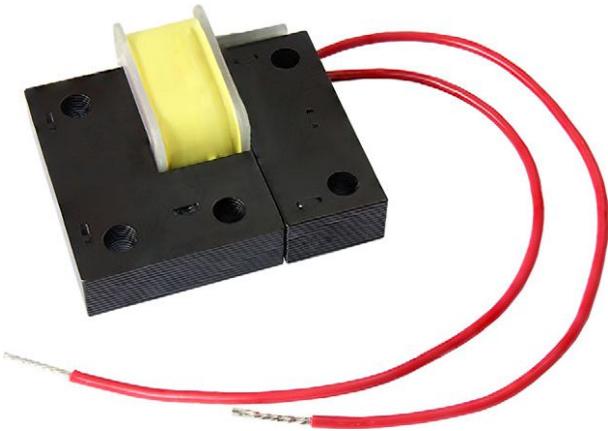


## Haptic Feedback Actuator



### LINKS TO ADDITIONAL RESOURCES



### FEATURES

- Solenoid construction provides high impulse vibration for clear tactile feedback in noisy environments
- This IHPT device can drive up to a 0.5 kg load to 6 g's of acceleration with a 12 V, 5 ms pulse using Vishay's spring return test fixture
- Standard lead termination is dipped 100 % tin solder; customer specific connectors available upon request
- Compact, two piece construction with mounting holes; stationary "U" core and moving "I-bar" for easy implementation in touch screen or touch button application
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

### APPLICATIONS

- Industrial touch screens and displays for appliances, building automation and control, factory automation and control, and electronic point of sale
- Medical touch screens for human-machine interfaces for healthcare monitoring, diagnostic, surgical, and treatment equipment
- Switch / touch panels requiring tactile feedback upon actuation

### STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	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)	DIELECTRIC WITHSTAND VOLTAGE COIL TO CORE (V <sub>DC</sub> )
IHPT1411AFEBR73AB0	0.73	5.0	1.8	0.95	1.09	150

#### 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 + temp. 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

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

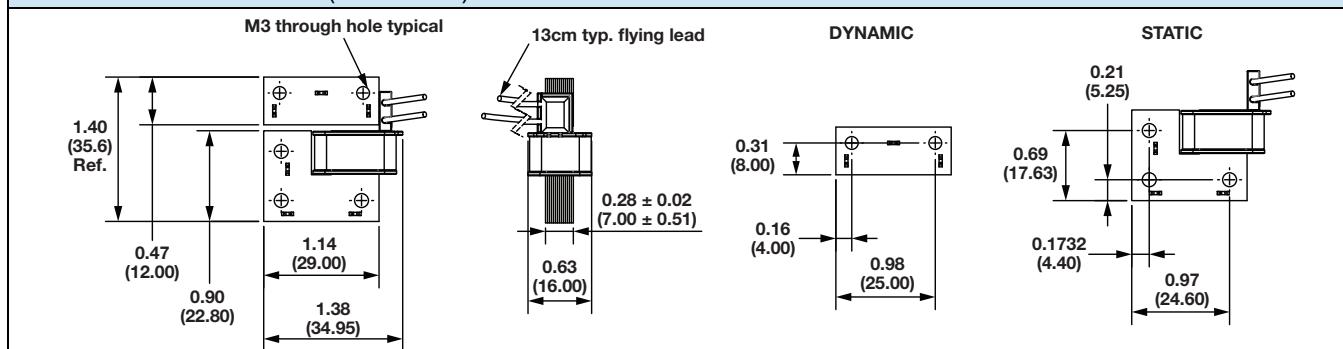
### MATERIAL

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

### SOLDER COMPOSITION

Sn	99.3 %
Cu	0.7 %

### DIMENSIONS in inches (millimeters)

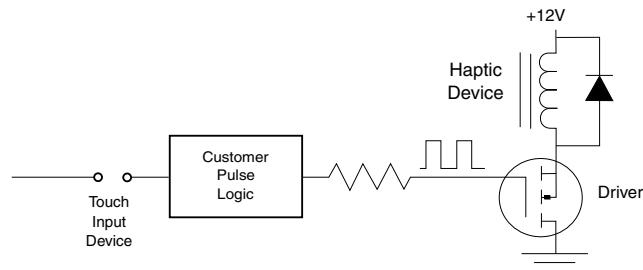
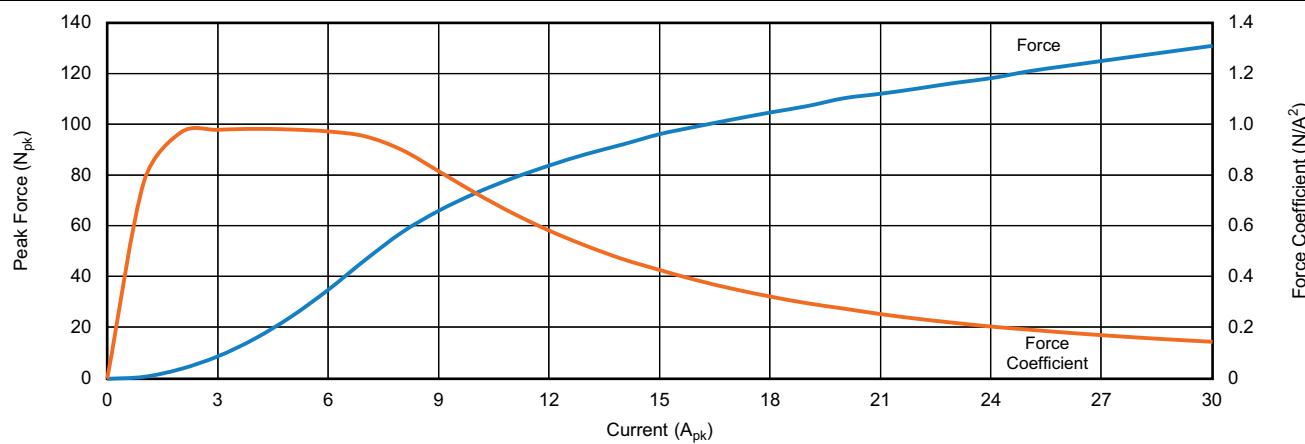
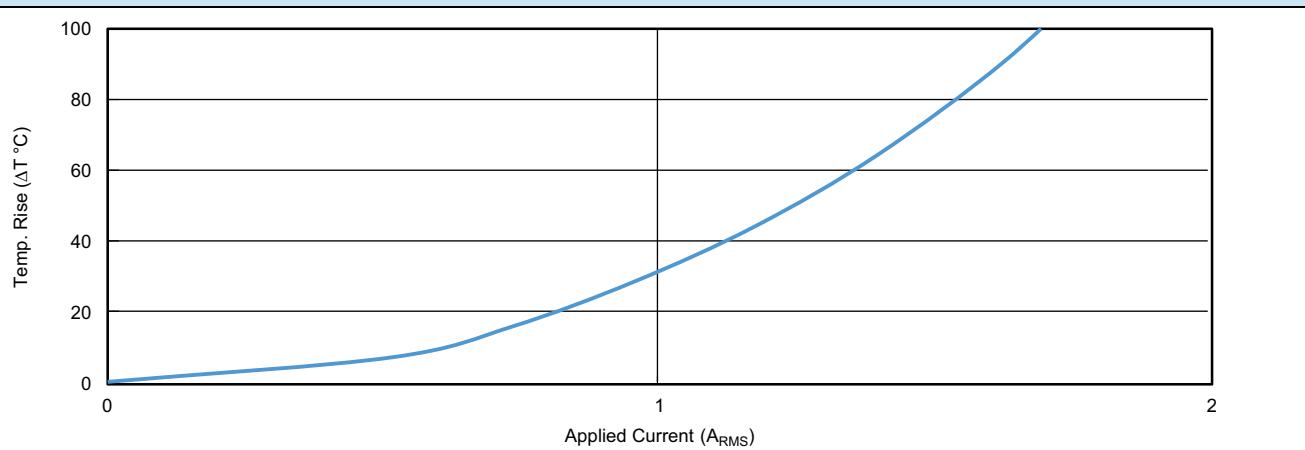


**DESCRIPTION**

IHPT-1411AF-AB0	R73	EB	e3
MODEL	FORCE COEFFICIENT	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

I	H	P	T	1	4	1	1	A	F	E	B	R	7	3	A	B	0
MODEL				SIZE				PACKAGE CODE				FORCE COEFFICIENT				SERIES	

**TYPICAL APPLICATION**

**IHPT PEAK FORCE RESPONSE (Typical)**

**IHPT-1411AF-AB0**


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