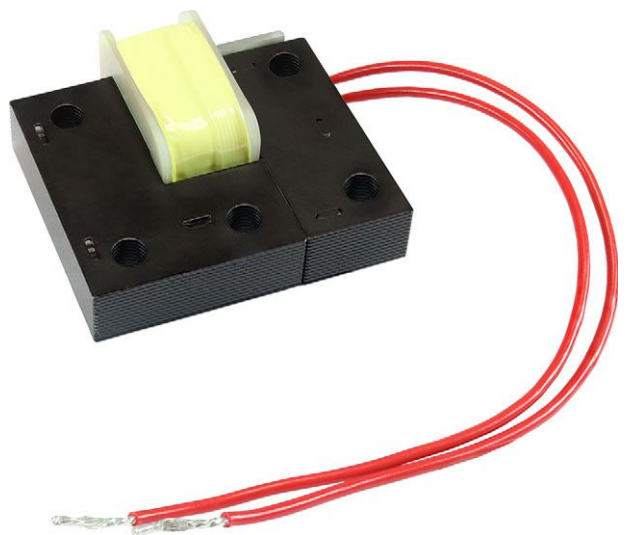


Haptic Feedback Actuator



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
- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



APPLICATIONS

- Automotive dashboards, touch screens, and center consoles
- Physical feedback for electronic shift transmissions, steering wheels, seats, control panels
- Touch screens for human-machine interfaces

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	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)	DIELECTRIC WITHSTAND VOLTAGE COIL TO CORE (V _{DC})
IHPT1411AFEBR73ABA	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

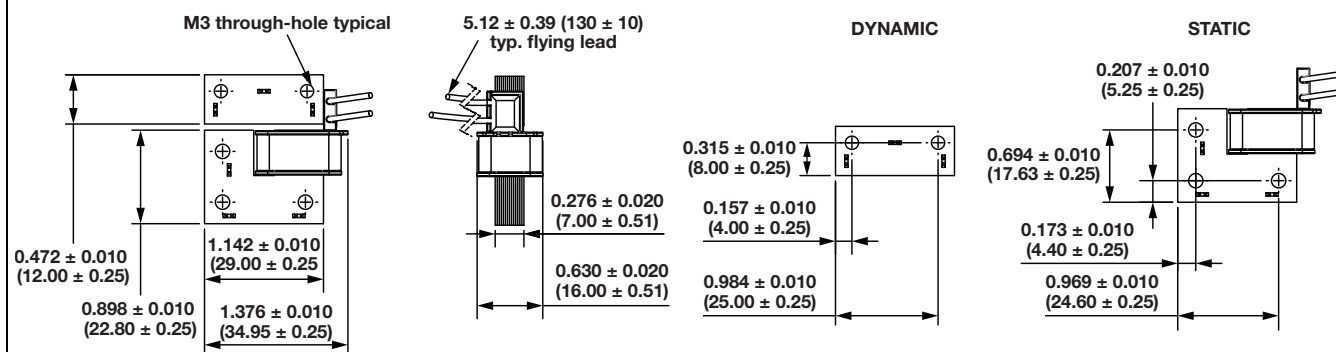
SOLDER COMPOSITION

Sn	99.3 %
Cu	0.7 %

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DIMENSIONS in inches (millimeters)



DESCRIPTION

IHPT-1411AF-ABA

R73

EB

e3

MODEL

FORCE COEFFICIENT

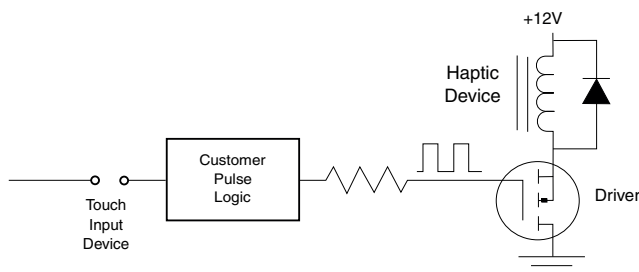
PACKAGE CODE

JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

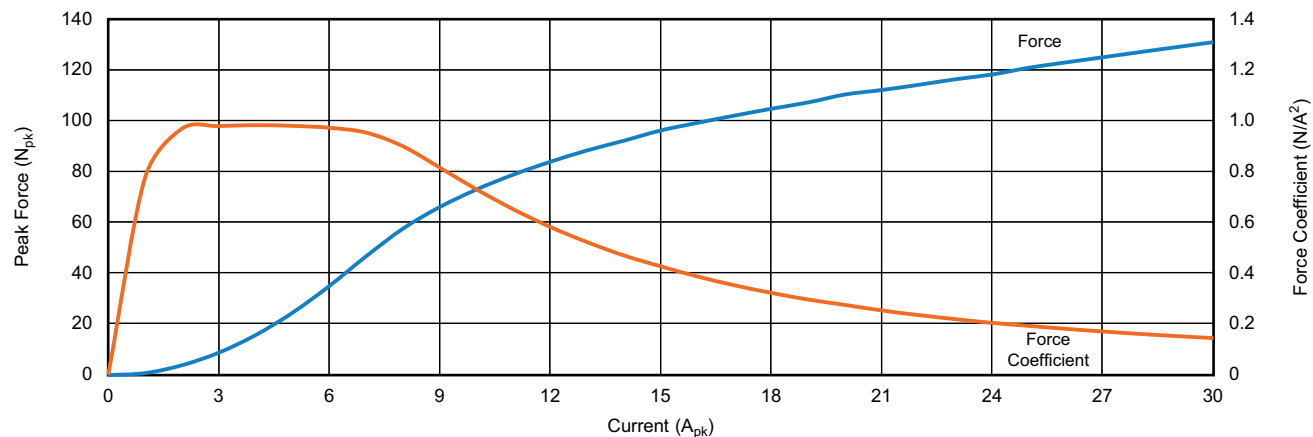
I	H	P	T	1	4	1	1	A	F	E	B	R	7	3	A	B	A
MODEL				SIZE					PACKAGE CODE		FORCE COEFFICIENT			SERIES			

TYPICAL APPLICATION

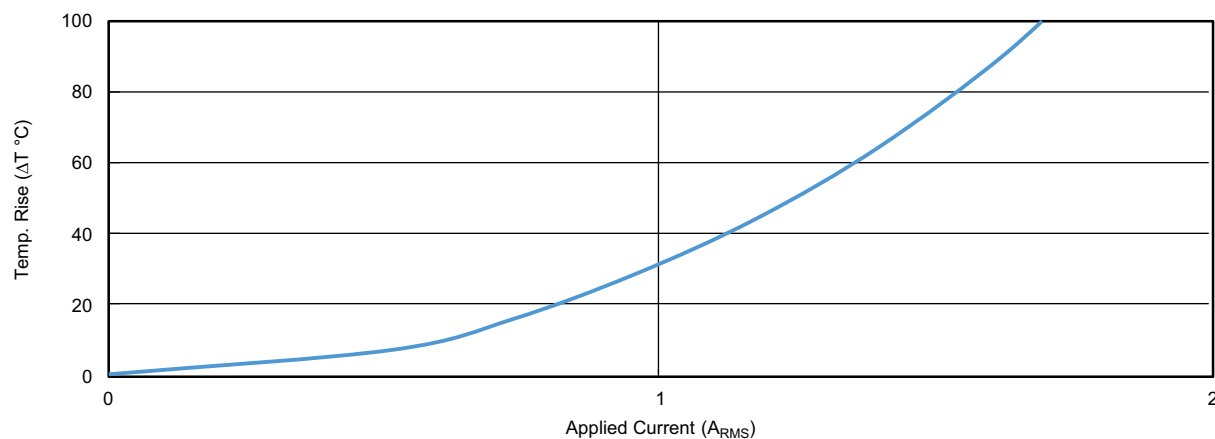




IHPT PEAK FORCE RESPONSE (Typical)



IHPT-1411AF-ABA





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