



Features

- Compliant with AEC-Q200 Rev-D - Stress Test Qualification for Passive Components in Automotive Applications
- Small footprint size (1210)
- Operating temperature range up to 125 °C
- Low thermal derating factor

- Higher hold currents at elevated temperatures
- RoHS compliant*
- Agency recognition:  
- TÜV certificates include IEC 62319-1, IEC 60738-1 and IEC 60730-1:2013 clause 15, clause 17 and Annex J

MF-USHT Series - PTC Resettable Fuses

Electrical Characteristics

Model	V _{max}	I _{max}	I _{hold}	I _{trip}	Resistance		Max. Time To Trip		Tripped Power Dissipation	Agency Recognition		AEC-Q200 Compliant
			at 23 °C		at 23 °C Ohms		at 23 °C		Watts at 23 °C	cUL	TÜV	
			Amps		R _{min}	R _{1max} **	Amps	Sec.	Typ.	E174545	R50384138	
MF-USHT010KX	30	20	0.10	0.50	1.0	7.5	2.5	1.5	1.0	✓	✓	✓
NEW! MF-USHT010KX/36	36	20	0.10	0.50	1.0	7.5	2.5	1.5	1.0	✓	✓	✓
MF-USHT016KX	30	20	0.16	0.80	0.7	6.0	8.0	0.1	1.0	✓	✓	✓
NEW! MF-USHT016KX/36	36	20	0.16	0.80	0.7	6.0	8.0	0.1	1.0	✓	✓	✓
MF-USHT020KX	30	20	0.20	1.00	0.6	5.0	8.0	0.1	1.0	✓	✓	✓
NEW! MF-USHT020KX/36	36	20	0.20	1.00	0.6	5.0	8.0	0.1	1.0	✓	✓	✓
MF-USHT035KX	30	20	0.35	1.75	0.4	2.2	8.0	0.1	1.0	✓	✓	✓
MF-USHT050KX	30	20	0.50	2.50	0.3	1.6	8.0	0.1	1.0	✓	✓	✓
MF-USHT075KX	16	20	0.75	3.75	0.1	1.0	8.0	5.0	1.0	✓	✓	✓
NEW! MF-USHT075KX/24	24	20	0.75	2.25	0.1	0.68	8.0	0.1	1.3	✓	✓	✓
NEW! MF-USHT110KX/16	16	20	1.10	3.30	0.06	0.50	8.0	0.5	1.5	✓	✓	✓
NEW! MF-USHT125KX/12	12	40	1.25	3.75	0.03	0.30	8.0	1.0	1.5	✓	✓	✓
NEW! MF-USHT150KX/12	12	40	1.50	4.50	0.025	0.25	8.0	1.0	1.5	✓	✓	✓
NEW! MF-USHT175KX/12	12	40	1.75	5.25	0.018	0.17	10.0	5.0	1.5	✓	✓	✓
NEW! MF-USHT200KX/12	12	40	2.00	6.00	0.015	0.15	10.0	5.0	1.5	✓	✓	✓

**R_{1Max}. measured 24 hours post reflow.

Environmental Characteristics

Item	Condition	Criteria
Operating Temperature	-40 °C to +125 °C	
Recommended Storage	+40 °C max. / 70 % R.H. max.	
Passive Aging	+125 °C, 1000 hours	R < R _{1max}
Humidity Aging	+85 °C, 85 % R.H. 1000 hours	R < R _{1max}
Thermal Shock	-40 °C to +125 °C, 20 times	R < R _{1max}
Solvent Resistance	MIL-STD-202, Method 215	No change (marking still legible)
Vibration	MIL-STD-883C, Method 2007.1 Condition A	No change (R _{min} < R < R _{1max})
Moisture Sensitivity Level (MSL)	See Note	
ESD Classification	Class 6 (per AEC-Q200-2, HBM)	

Additional Information

Click these links for more information:



[PRODUCT SELECTOR](#) [TECHNICAL LIBRARY](#) [INVENTORY](#) [SAMPLES](#) [CONTACT](#)



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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Applications

- Protection of automotive circuitry including engine control modules
- Overcurrent surge protection of electronic equipment required to operate at high operating temperature ranges
- Resettable fault protection for general electronic equipment

MF-USHT Series - PTC Resettable Fuses

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Test Procedures and Requirements

Item	Test Condition	Accept/Reject Criteria
Visual/Mechanical	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23 °C	$R_{min} \leq R \leq R_{max}$
Time to Trip	At specified current, V_{max} , 23 °C, still air	$T \leq \text{max. time to trip (seconds)}$
Hold Current	30 min. at I_{hold} , still air	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning
Solderability	245 °C $\pm$ 5 °C, 5 seconds	95 % min. coverage

Thermal Derating Table - I_{hold} (Amps)

Model	Ambient Operating Temperature									
	-40 °C	-20 °C	0 °C	+23 °C	+40 °C	+50 °C	+60 °C	+70 °C	+85 °C	+125 °C
MF-USHT010KX	0.15	0.13	0.12	0.10	0.09	0.08	0.074	0.067	0.056	0.027
MF-USHT010KX/36	0.15	0.13	0.12	0.10	0.09	0.08	0.074	0.067	0.056	0.027
MF-USHT016KX	0.23	0.21	0.19	0.16	0.14	0.13	0.12	0.11	0.09	0.04
MF-USHT016KX/36	0.23	0.21	0.19	0.16	0.14	0.13	0.12	0.11	0.09	0.04
MF-USHT020KX	0.29	0.26	0.23	0.20	0.18	0.16	0.15	0.13	0.11	0.05
MF-USHT020KX/36	0.29	0.26	0.23	0.20	0.18	0.16	0.15	0.13	0.11	0.05
MF-USHT035KX	0.51	0.46	0.41	0.35	0.31	0.28	0.26	0.23	0.20	0.09
MF-USHT050KX	0.73	0.66	0.58	0.50	0.44	0.41	0.37	0.34	0.28	0.14
MF-USHT075KX	1.09	0.98	0.87	0.75	0.66	0.61	0.56	0.50	0.42	0.20
MF-USHT075KX/24	1.09	0.98	0.87	0.75	0.66	0.61	0.56	0.50	0.42	0.20
MF-USHT110KX/16	1.60	1.44	1.28	1.10	0.97	0.89	0.81	0.74	0.62	0.30
MF-USHT125KX/12	1.81	1.64	1.45	1.25	1.10	1.01	0.93	0.84	0.70	0.34
MF-USHT150KX/12	2.18	1.97	1.74	1.50	1.32	1.22	1.11	1.01	0.84	0.41
MF-USHT175KX/12	2.54	2.29	2.03	1.75	1.54	1.42	1.30	1.17	0.98	0.47
MF-USHT200KX/12	2.90	2.62	2.32	2.00	1.76	1.62	1.48	1.34	1.12	0.54

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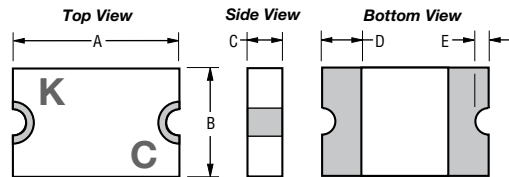
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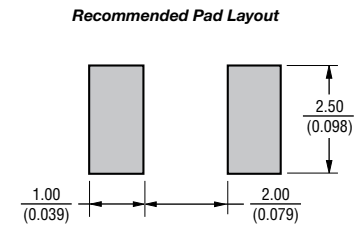
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Product Dimensions



Terminal Material:
ENIG-plated terminals

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$



Model	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
MF-USHT010KX										
MF-USHT010KX/36										
MF-USHT016KX										
MF-USHT016KX/36										
MF-USHT020KX					0.40 (0.016)	0.85 (0.033)				
MF-USHT020KX/36										
MF-USHT035KX										
MF-USHT050KX	3.00 (0.118)	3.43 (0.135)	2.35 (0.093)	2.80 (0.110)			0.30 (0.012)	1.00 (0.039)	0.05 (0.002)	0.45 (0.018)
MF-USHT075KX					0.60 (0.024)	1.20 (0.047)				
MF-USHT075KX/24										
MF-USHT110KX/16										
MF-USHT125KX/12					0.65 (0.026)	1.05 (0.041)				
MF-USHT150KX/12										
MF-USHT175KX/12					1.00 (0.039)	1.40 (0.055)				
MF-USHT200KX/12										

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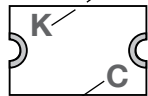
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Packaging Quantity

Model	Packaging Quantity
MF-USHT010KX MF-USHT010KX/36 MF-USHT016KX MF-USHT016KX/36 MF-USHT020KX MF-USHT020KX/36 MF-USHT035KX MF-USHT050KX MF-USHT075KX MF-USHT075KX/24 MF-USHT110KX/16 MF-USHT125KX/12 MF-USHT150KX/12	3,000 pcs. per reel
MF-USHT175KX/12 MF-USHT200KX/12	2,000 pcs. per reel

Typical Part Marking

Represents total content. Layout may vary.



PART IDENTIFICATION:
MF-USHT010KX &
MF-USHT010KX/36 = B
MF-USHT016KX &
MF-USHT016KX/36 = D
MF-USHT020KX &
MF-USHT020KX/36 = E
MF-USHT035KX = F
MF-USHT050KX = K
MF-USHT075KX &
MF-USHT075KX/24 = L
MF-USHT110KX/16 = N
MF-USHT125KX/12 = P
MF-USHT150KX/12 = S
MF-USHT175KX/12 = T
MF-USHT200KX/12 = U

BIWEEKLY DATE CODE:
WEEK 1 AND 2 = A
WEEK 51 AND 52 = Z

How to Order

MF - USHT 075 K X / 24 - 2

Multifuse® Product Designator _____
Series _____
USHT = 1210 High Temperature Surface Mount Component
Hold Current (I_{hold}) Indicator _____
010 ~ 200 (0.10 - 2.00 Amps)
Material Specific Code _____
Multifuse® freeXpansion™ Design Code _____
Voltage Options _____
12 = 12 Voltage Rated
16 = 16 Voltage Rated
24 = 24 Voltage Rated
36 = 36 Voltage Rated
Packaging _____
-2 = Tape and Reel Packaged per EIA-481

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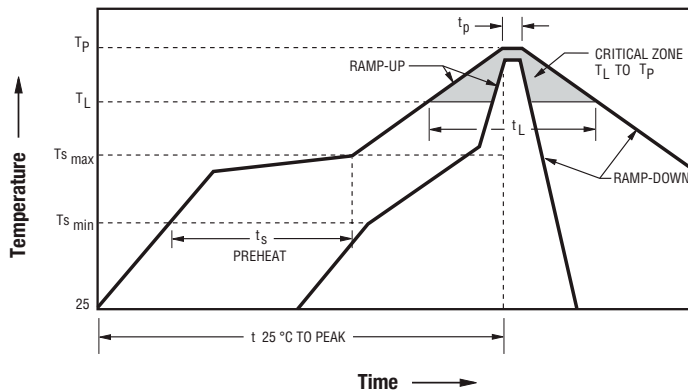
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MF-USHT Series - PTC Resettable Fuses

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Solder Reflow Recommendations



Notes:

- MF-USHT models are intended for reflow soldering (including, but not limited to heating plate, hot air, IR, nitrogen, and vapor phase).
- Wave soldering is permissible only if the device is on the top of the PCB, opposite the heat source.
- Hand soldering is not recommended for these devices.
- All temperatures refer to the topside of the device, measured on the device body surface.
- If reflow temperatures exceed the recommended profile, devices may not meet the published specifications.
- Compatible with Pb and Pb-free solder reflow profiles.
- Excess solder may cause a short circuit.
- Please refer to the [Multifuse® Polymer PTC Resettable Fuse Soldering Recommendations](#) document for more details.

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (TSmax to TP)	3 °C / second max.
PREHEAT: Temperature Min. (TSmin) Temperature Max. (TSmax) Time (TSmin to TSmax) (ts)	150 °C 200 °C 60~180 seconds
TIME MAINTAINED ABOVE: Temperature (TL) Time (tL)	217 °C 60~150 seconds
Peak Temperature (TP)	260 °C
Time within 5 °C of Actual Peak Temperature (tp)	20~40 seconds
Ramp-Down Rate	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

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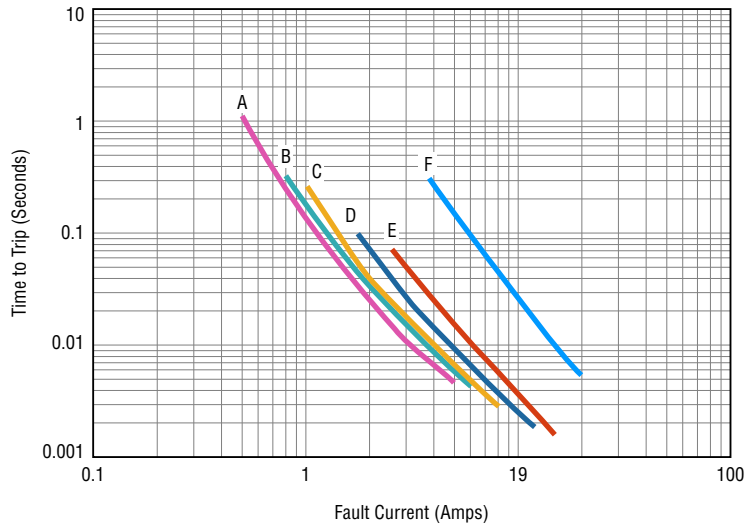
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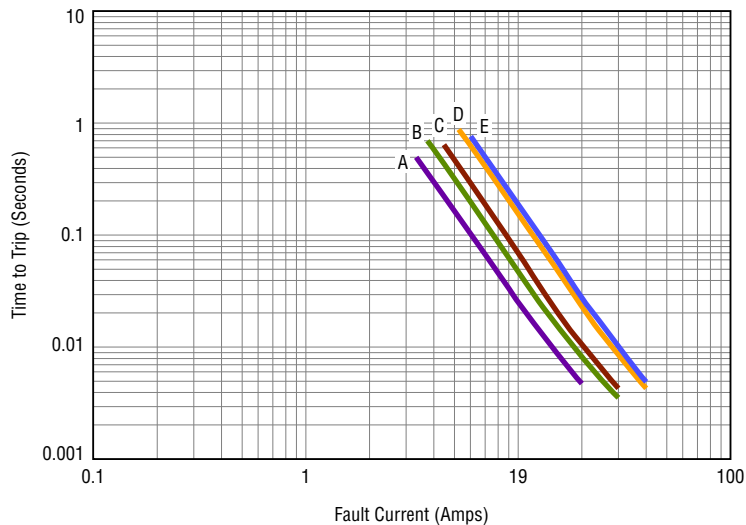
MF-USHT Series - PTC Resettable Fuses

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Typical Time to Trip at 23 °C



- A - MF-USHT010KX, MF-USHT010KX/36
- B - MF-USHT016KX, MF-USHT016KX/36
- C - MF-USHT020KX, MF-USHT020KX/36
- D - MF-USHT035KX
- E - MF-USHT050KX
- F - MF-USHT075KX, MF-USHT075KX/24



- A - MF-USHT110KX/16
- B - MF-USHT125KX/12
- C - MF-USHT150KX/12
- D - MF-USHT175KX/12
- E - MF-USHT200KX/12

The Time to Trip curves represent typical performance of a device in a simulated application environment. Actual performance in specific customer applications may differ from these values due to the influence of other variables.

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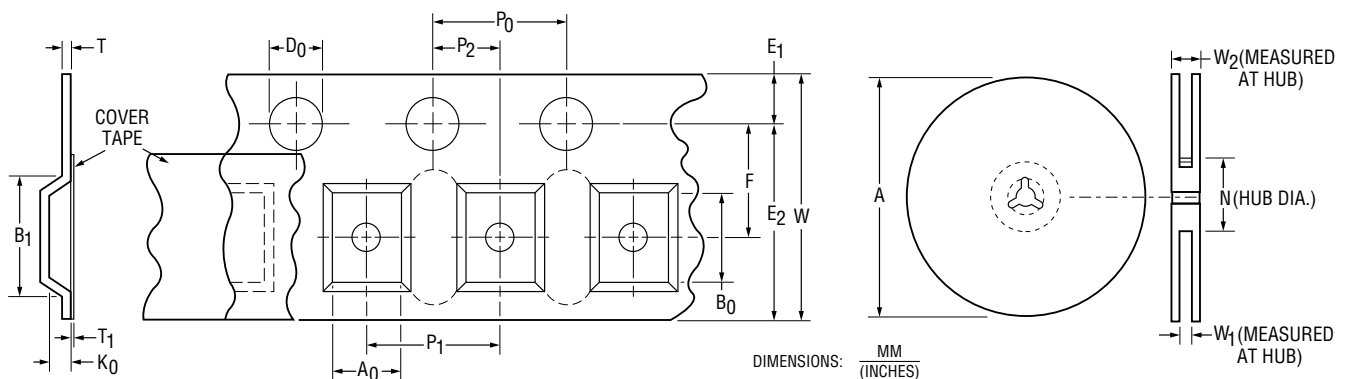
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MF-USHT Series Tape and Reel Specifications

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Tape Dimensions per EIA-481	MF-USHT010KX MF-USHT010KX/36 MF-USHT016KX MF-USHT016KX/36	MF-USHT020KX MF-USHT020KX/36 MF-USHT035KX MF-USHT050KX	MF-USHT075KX MF-USHT075KX/24	MF-USHT110KX/16 MF-USHT125KX/12 MF-USHT150KX/12	MF-USHT175KX/12 MF-USHT200KX/12
W			$\frac{8.00 \pm 0.30}{(.315 \pm .012)}$		
P ₀			$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$		
10 P ₀			$\frac{40.0 \pm 0.20}{(1.575 \pm .008)}$		
P ₁			$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$		
P ₂			$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$		
A ₀	$\frac{2.86 \pm 0.10}{(.113 \pm .004)}$	$\frac{3.00 \pm 0.10}{(.118 \pm .004)}$	$\frac{3.00 \pm 0.10}{(.118 \pm .004)}$	$\frac{3.00 \pm 0.10}{(.118 \pm .004)}$	$\frac{3.00 \pm 0.10}{(.118 \pm .004)}$
B ₀	$\frac{3.50 \pm 0.10}{(.138 \pm .004)}$	$\frac{3.65 \pm 0.10}{(.144 \pm .004)}$	$\frac{3.50 \pm 0.10}{(.138 \pm .004)}$	$\frac{3.50 \pm 0.10}{(.138 \pm .004)}$	$\frac{3.50 \pm 0.10}{(.138 \pm .004)}$
B ₁ max.			$\frac{4.35}{(.171)}$		
D ₀			$\frac{1.50 +0.10/-0}{(.059 +.004/-0)}$		
F			$\frac{3.50 \pm 0.05}{(.138 \pm .002)}$		
E ₁			$\frac{1.75 \pm 0.10}{(.069 \pm .004)}$		
E ₂ min.			$\frac{6.25}{(.246)}$		
T max.			$\frac{0.60}{(.024)}$		
T ₁ max.			$\frac{0.10}{(.004)}$		
K ₀	$\frac{1.07 \pm 0.10}{(.042 \pm .004)}$	$\frac{0.85 \pm 0.10}{(.033 \pm .004)}$	$\frac{1.22 \pm 0.10}{(.048 \pm .004)}$	$\frac{1.10 \pm 0.10}{(.043 \pm .004)}$	$\frac{1.68 \pm 0.10}{(.066 \pm .004)}$
Leader min.			$\frac{390}{(15.4)}$		
Trailer min.			$\frac{160}{(6.3)}$		
Reel Dimensions					
A max.			$\frac{185}{(7.3)}$		
N min.			$\frac{50}{(2.0)}$		
W ₁			$\frac{8.4 +1.5/-0}{(.33 +.06/-0)}$		
W ₂ max.			$\frac{14.4}{(.57)}$		



MF-USHT SERIES, REV. K 12/24

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Application Notice

- Users are responsible for independent and adequate evaluation of Bourns® Multifuse® Polymer PTC devices in the user's application, including the PPTC device characteristics stated in the applicable data sheet.
- Polymer PTC devices must not be allowed to operate beyond their stated maximum ratings. Operation in excess of such maximum ratings could result in damage to the PTC device and possibly lead to electrical arcing and/or fire. Circuits with inductance may generate a voltage above the rated voltage of the polymer PTC device and should be thoroughly evaluated within the user's application during the PTC selection and qualification process.
- Polymer PTC devices are intended to protect against adverse effects of temporary overcurrent or overtemperature conditions up to rated limits and are not intended to serve as protective devices where overcurrent or overvoltage conditions are expected to be repetitive or prolonged.
- In normal operation, polymer PTC devices experience thermal expansion under fault conditions. Thus, a polymer PTC device must be protected against mechanical stress, and must be given adequate clearance within the user's application to accommodate such thermal expansion. Rigid potting materials or fixed housings or coverings that do not provide adequate clearance should be thoroughly examined and tested by the user, as they may result in the malfunction of polymer PTC devices if the thermal expansion is inhibited.
- Exposure to lubricants, silicon-based oils, solvents, gels, electrolytes, acids, and other related or similar materials may adversely affect the performance of polymer PTC devices.
- Aggressive solvents may adversely affect the performance of polymer PTC devices. Conformal coating, encapsulating, potting, molding, and sealing materials may contain aggressive solvents including but not limited to xylene and toluene, which are known to cause adverse effects on the performance of polymer PTCs. Such aggressive solvents must be thoroughly cured or baked to ensure their complete removal from polymer PTCs to minimize the possible adverse effect on the device.
- Recommended storage conditions should be followed at all times. Such conditions can be found on the applicable data sheet and on the Multifuse® Polymer PTC Moisture/Reflow Sensitivity Classification (MSL) note:
https://www.bourns.com/docs/RoHS-MSL/msl_mf.pdf

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