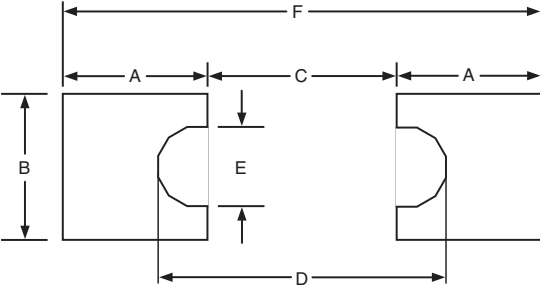


CHP Series

Physical Data

IRC Type	Size Code	Industry Footprint	Actual Size			
				Dimensions (Inches and (mm))		
				L	W	C
CHP 1/8	B	1206		0.128 ± 0.007 (3.25 ± 0.18)	0.057 ± 0.006 (1.45 ± 0.15)	0.020 ± 0.010 (0.51 ± 0.25)
CHP 1/2	D	2010		0.200 ± 0.010 (5.08 ± 0.25)	0.079 (nom.) -0.006 / +0.011 (2.01 (nom.) -0.15 / +0.28)	0.030 ± 0.010 (0.761 ± 0.25)
CHP 1	F	2512		0.251 ± 0.010 (6.38 ± 0.25)	0.079 (nom.) -0.006 / +0.011 (2.01 (nom.) -0.15 / +0.28)	0.040 ± 0.010 (1.02 ± 0.25)
CHP 2	H	3610		0.367 ± 0.010 (9.32 ± 0.25)	0.105 (nom.) -0.006 / +0.011 (2.67 (nom.) -0.15 / +0.28)	0.050 ± 0.010 (1.27 ± 0.25)

Recommended Solder Pad Dimensions (Reflow):

							
Size Code	Industry Footprint	Dimensions (Inches and (mm))					
		A	B	C	D	E	F
B & C	1206	0.076 (1.93)	0.093 (2.36)	0.058 (1.47)	0.098 (2.49)	0.032 (0.81)	0.211 (5.36)
D	2010	0.111 (2.82)	0.126 (3.20)	0.096 (2.44)	0.152 (3.86)	0.040 (1.02)	0.318 (8.08)
E	2010	0.170 (4.32)	0.160 (4.06)	0.072 (1.83)	0.132 (3.35)	0.044 (1.12)	0.412 (10.46)
F	2512	0.121 (3.07)	0.126 (3.20)	0.127 (3.23)	0.183 (4.65)	0.040 (1.02)	0.369 (9.37)
H	3610	0.170 (4.32)	0.160 (4.06)	0.213 (5.41)	0.273 (6.93)	0.044 (1.12)	0.553 (14.05)

General Note

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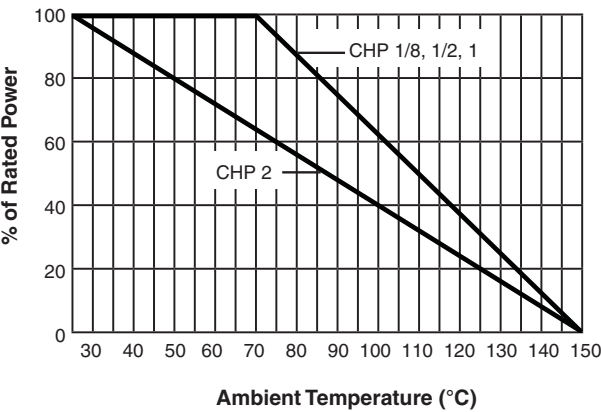
CHP Series

Standard Reel Packaging per EIA-481:

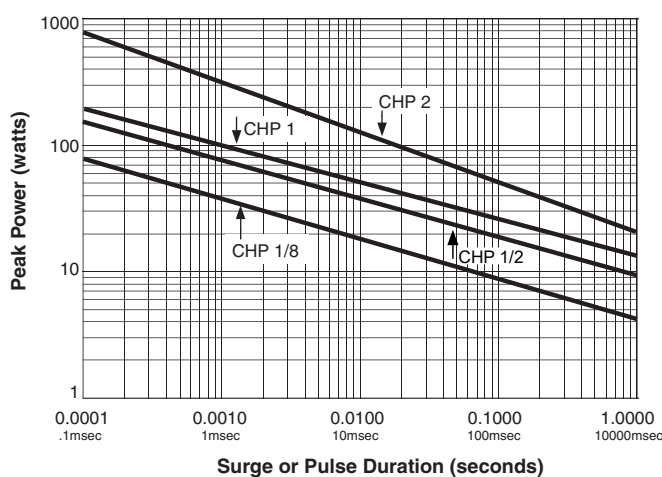
IRC Type	Size Code	Industry Footprint	Reel Diameter*	Quantity Per Reel	Carrier Tape Width	Component Pitch
CHP 1/8 MRC 1/2	B C	1206	7"	2,500 max.	8mm	4mm
			13"	10,000 max.		
CHP 1/2 MRC 1	D E	2010	7"	1,500 max.	12mm	4mm
			13"	5,000 max.		
CHP 1	F	2512	7"	1,500 max.	12mm	4mm
			13"	5,000 max.		
CHP 2	H	3610	13"	1,500 max.	24mm	4mm

*The 13" reel is considered standard and will be supplied unless otherwise specified.

Power Derating Curve



Repetitive Surge Curve



Note: Use for repetitive pulses where the average power dissipation is not to exceed the component rating at 70°C. Surge handling capacity for low-repetitive surges may be significantly greater than shown above. Contact factory for recommendations.

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CHP Series

Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: CHP1-220KFI (CHP1 with TCR $\pm 100\text{ppm}/^\circ\text{C}$ at 220 kilohms $\pm 1\%$, Pb-free)

C	H	P	1				-	2	2	0	K	F	I	
1			2			3			4		5			

1 Type	2 TCR (ppm/°C)	3 Value	4 Tolerance	5 Termination & Packing		
CHP1/8	Omit for ±100	E24 = 3/4 characters E96 = 4/5 characters R = ohms K = kilohms M = megohms	C = ±0.25%	I = Pb-free, standard pack		
CHP1/2	-50 = ±50		D = ±0.5%	PB = SnPb, standard pack		
CHP1			F = ±1%	CHP1/8	Tape	2500/7" reel
CHP2			G = ±2%	CHP1/2, 1		1500/7" reel
			J = ±5%	CHP2		1500/13" reel
				T5 = Pb-free, 5K pack option		
				CHP1/8, 1/2 & 1	Tape	5000/13" reel

USA (IRC) Part Number: CHP11002203FLF (CHP1 with TCR $\pm 100\text{ppm}/^\circ\text{C}$ at 220 kilohms $\pm 1\%$, Pb-free)

C	H	P	1	1	0	0	2	2	0	3	F	L	F
1			2			3			4		5		

1 Type	2 TCR	3 Value	4 Tolerance	5 Termination & Packing	
CHP1/8	50 = ±50	3 digits + multiplier	C = ±0.25%	Omit for SnPb, Standard pack	
CHP1/2	100 = ±100	R = ohms for values <100 ohms	D = ±0.5%	LF = Pb-free, Standard pack	
CHP1			F = ±1%	CHP1/8	2500/7" reel
CHP2			G = ±2%	CHP1/2 & 1	1500/7" reel
			J = ±5%	CHP2	1500/13" reel

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