

HCY2

Metalized polypropylene film interference suppression capacitor(Class Y2, 300Va.c.)






Features

- Metallized polypropylene film
- Capable of withstanding over-voltage stress
- Excellent self-healing performance
- UL 94 V-0 compliant
- Automotive (AEC-Q200) grade

Typical Applications

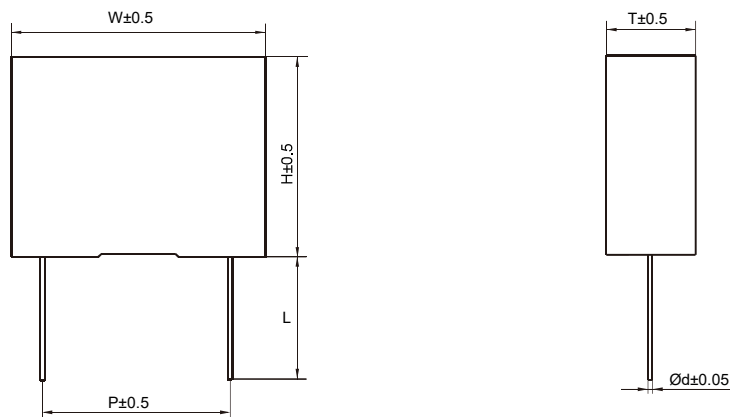
- For use in electromagnetic interference (EMI) suppression in "line-to-ground" applications
- Not suitable for series connection with the mains

Safety Approvals

	CQC	GB/T 6346.14	0.001μF-1.0μF; 300Va.c.;40/110/56/B File No.: CQC24001429840
	UL/cUL	UL 60384-14 CSAE60384-1 CSA E60384-14	0.001μF-1.0μF; 300Va.c.;40/110/56/B; File No.: E311928
	ENEC	EN 60384-14 EN 60384-14:A1	0.001μF-1.0μF; 300Va.c.;40/110/56/B; File No.: ENEC-04611-M1

Notes: The above certificate No.is just a license No. Please refer to the certificates we supplied for detail information.

Outline Drawing



Notes: All product dimensions are in mm.
See the Outline Dimensions table for details.

Specifications

Reference standards		IEC 60384-14, GB/T 6346.14				
Rated voltage	U _R	300Va.c. (50Hz/60Hz)				
Permissible DC voltage	U _{DC}	1500Vd.c. T _{op} ≤85°C 1.33%/°C derating when 85°C<T _{op} ≤110°C				
Capacitance range	C _N	0.001μF~1.0μF				
Capacitance tolerance		±10%(K), ±20%(M)				
Dissipation factor	tanδ	0.001μF<C _N ≤0.47μF	≤30×10 ⁻⁴ (10kHz,20°C)			
		0.47μF<C _N ≤1.0μF	≤40×10 ⁻⁴ (10kHz,20°C)			
Insulation resistance (20°C,100V,1min)	IR	C _N ≤0.33μF	IR≥15000MΩ			
		C _N >0.33μF	IR·C _N ≥5000s			
Climatic category/ Passive flammability category		40/110/56/B				
Operating temperature range	T _{OP}	-40°C~+110°C				
Voltage proof	U _{t-t}	Between terminals	C _N ≤0.33μF	4000Vd.c. or 2000Va.c.(2s)		
			C _N >0.33μF	3700Vd.c. or 2000Va.c.(2s)		
	U _{t-c}	Between terminals and case	2500Va.c.(1min)			
Pulse handling capability	Lead spacing	10mm	15mm	22.5mm	27.5mm	37.5mm
	dV/dt (V/μs)	800	600	500	400	300
	"dV/dt" represents the maximum permissible voltage change per unit of time for non-sinusoidal voltages, expressed in V/μs.					

Ordering Information

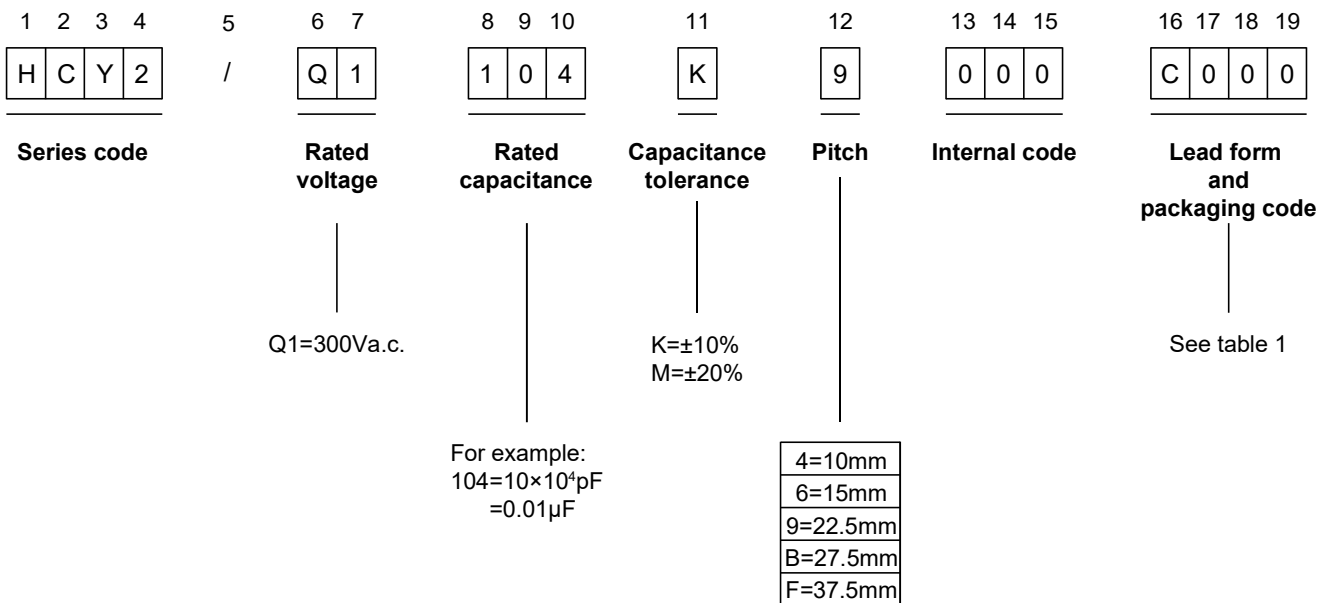


Table 1: Lead Form and Packaging Code

Digit 16		Digit 17		Digit 18		Digit 19	
Code	Explanation	Code	Explanation	Code	Explanation	Code	Explanation
A	Ammo-pack ¹⁾	3	F=7.5mm	0	Straight	1	Taping lead space: P ₃ =12.7mm,H=18.0mm(Pitch=7.5mm)
		4	F=10mm				5
		6	F=15mm			1	
		7	F=22.5mm				
		8	F=27.5mm				
C	Straight Lead (bulk) ²⁾	00	Standard lead length(18mm ~ 28mm)	0		0	Standard lead length
		35	Lead length3.5mm ³⁾				Lead length tolerance±0.5mm

Notes: 1) For more details on Ammo-pack, please refer to the Overview of the Universal Capacitors.

2) Other lead form and packaging options are available upon customer request.

3) If the lead length is 4.5 mm, the code is C450, etc.

Outline Dimensions

Unit: mm

300Va.c.													
C _N (μF)	W	H	T	P	d	Ordering Information	C _N (μF)	W	H	T	P	d	Ordering Information
0.001	13.0	9.0	4.0	10.0	0.6	HCY2/Q1102+4000****	0.0047	18.0	9.5	5.0	15.0	0.6	HCY2/Q1472+6000****
0.0012	13.0	9.0	4.0	10.0	0.6	HCY2/Q1122+4000****	0.0056	18.0	9.5	5.0	15.0	0.6	HCY2/Q1562+6000****
0.0015	13.0	9.0	4.0	10.0	0.6	HCY2/Q1152+4000****	0.0068	18.0	9.5	5.0	15.0	0.6	HCY2/Q1682+6000****
0.0018	13.0	9.0	4.0	10.0	0.6	HCY2/Q1182+4000****	0.0082	18.0	9.5	5.0	15.0	0.6	HCY2/Q1822+6000****
0.0022	13.0	9.0	4.0	10.0	0.6	HCY2/Q1222+4000****	0.01	18.0	11.0	5.0	15.0	0.6	HCY2/Q1103+6000****
0.0027	13.0	9.0	4.0	10.0	0.6	HCY2/Q1272+4000****	0.012	18.0	11.0	5.0	15.0	0.6	HCY2/Q1123+6000****
0.0033	13.0	9.0	4.0	10.0	0.6	HCY2/Q1332+4000****	0.015	18.0	11.0	5.0	15.0	0.6	HCY2/Q1153+6000****
0.0039	13.0	9.0	4.0	10.0	0.6	HCY2/Q1392+4000****	0.018	18.0	12.0	6.0	15.0	0.6	HCY2/Q1183+6000****
0.0047	13.0	11.0	5.0	10.0	0.6	HCY2/Q1472+4000****	0.022	18.0	12.0	6.0	15.0	0.6	HCY2/Q1223+6000****
0.0056	13.0	11.0	5.0	10.0	0.6	HCY2/Q1562+4000****	0.027	18.0	13.0	7.0	15.0	0.6	HCY2/Q1273+6000****
0.0068	13.0	11.0	5.0	10.0	0.6	HCY2/Q1682+4000****	0.033	18.0	13.5	7.5	15.0	0.8	HCY2/Q1333+6000****
0.0082	13.0	12.0	6.0	10.0	0.6	HCY2/Q1822+4000****	0.039	18.0	14.5	8.5	15.0	0.8	HCY2/Q1393+6000****
0.01	13.0	12.0	6.0	10.0	0.6	HCY2/Q1103+4000****	0.047	18.0	14.5	8.5	15.0	0.8	HCY2/Q1473+6000****
0.015	13.0	14.0	8.0	10.0	0.6	HCY2/Q1153+4000****	0.056	18.0	16.0	10.0	15.0	0.8	HCY2/Q1563+6000****
0.0022	18.0	9.5	5.0	15.0	0.6	HCY2/Q1222+6000****	0.068	18.0	16.0	10.0	15.0	0.8	HCY2/Q1683+6000****
0.0027	18.0	9.5	5.0	15.0	0.6	HCY2/Q1272+6000****	0.082	18.0	19.2	11.2	15.0	0.8	HCY2/Q1823+6000****
0.0033	18.0	9.5	5.0	15.0	0.6	HCY2/Q1332+6000****	0.033	26.5	15.0	6.0	22.5	0.8	HCY2/Q1333+9000****
0.0039	18.0	9.5	5.0	15.0	0.6	HCY2/Q1392+6000****	0.039	26.5	15.0	6.0	22.5	0.8	HCY2/Q1393+9000****

Notes: 1) "+" means capacitance tolerance, K=±10%, M=±20% ;

2) "****" means lead form and packaging code (See table 1) .

Outline Dimensions

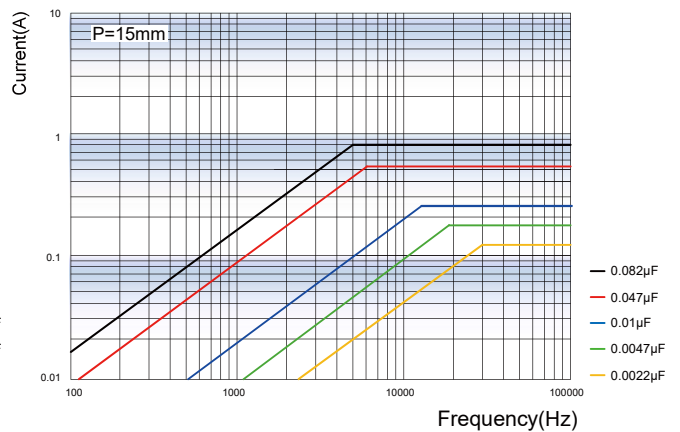
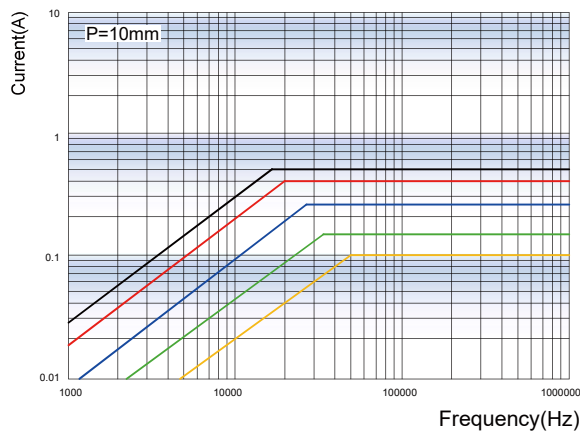
Unit: mm

300Va.c.													
C _N (μF)	W	H	T	P	d	Ordering Information	C _N (μF)	W	H	T	P	d	Ordering Information
0.047	26.5	15.0	6.0	22.5	0.8	HCY2/Q1473+9000****	0.27	32.0	25.0	14.0	27.5	0.8	HCY2/Q1274+B000****
0.056	26.5	16.5	7.0	22.5	0.8	HCY2/Q1563+9000****	0.33	32.0	25.0	14.0	27.5	0.8	HCY2/Q1334+B000****
0.068	26.5	16.5	7.0	22.5	0.8	HCY2/Q1683+9000****	0.39	32.0	28.0	14.0	27.5	0.8	HCY2/Q1394+B000****
0.082	26.5	17.0	8.5	22.5	0.8	HCY2/Q1823+9000****	0.47	32.0	30.0	16.0	27.5	0.8	HCY2/Q1474+B000****
0.1	26.5	17.0	8.5	22.5	0.8	HCY2/Q1104+9000****	0.56	32.0	30.0	16.0	27.5	0.8	HCY2/Q1564+B000****
0.12	26.5	19.0	10.0	22.5	0.8	HCY2/Q1124+9000****	0.68	32.0	33.0	18.0	27.5	0.8	HCY2/Q1684+B000****
0.15	26.5	19.0	10.0	22.5	0.8	HCY2/Q1154+9000****	0.82	32.0	37.0	22.0	27.5	0.8	HCY2/Q1824+B000****
0.18	26.5	22.0	12.0	22.5	0.8	HCY2/Q1184+9000****	1.0	32.0	37.0	22.0	27.5	0.8	HCY2/Q1105+B000****
0.22	26.5	22.0	12.0	22.5	0.8	HCY2/Q1224+9000****	0.33	42.0	22.0	12.0	37.5	1.0	HCY2/Q1334+F000****
0.27	26.5	24.5	15.5	22.5	0.8	HCY2/Q1274+9000****	0.39	42.0	24.0	13.0	37.5	1.0	HCY2/Q1394+F000****
0.33	26.5	29.5	14.5	22.5	0.8	HCY2/Q1334+9000****	0.47	42.0	26.0	15.0	37.5	1.0	HCY2/Q1474+F000****
0.39	26.5	29.5	14.5	22.5	0.8	HCY2/Q1394+9000****	0.56	42.0	26.0	15.0	37.5	1.0	HCY2/Q1564+F000****
0.15	32.0	20.0	11.0	27.5	0.8	HCY2/Q1154+B000****	0.68	42.0	30.0	16.0	37.5	1.0	HCY2/Q1684+F000****
0.18	32.0	20.0	11.0	27.5	0.8	HCY2/Q1184+B000****	0.82	42.0	30.0	16.0	37.5	1.0	HCY2/Q1824+F000****
0.22	32.0	22.0	13.0	27.5	0.8	HCY2/Q1224+B000****	1.0	42.0	33.0	18.0	37.5	1.0	HCY2/Q1105+F000****

Notes: 1) "+" means capacitance tolerance, K=±10%, M=±20% ;
 2) "****" means lead form and packaging code (See table 1) .

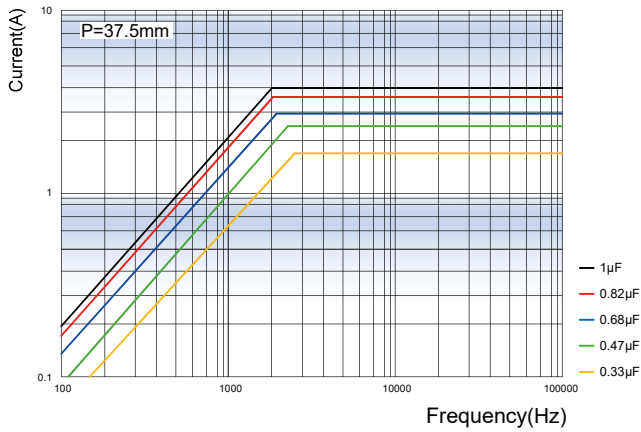
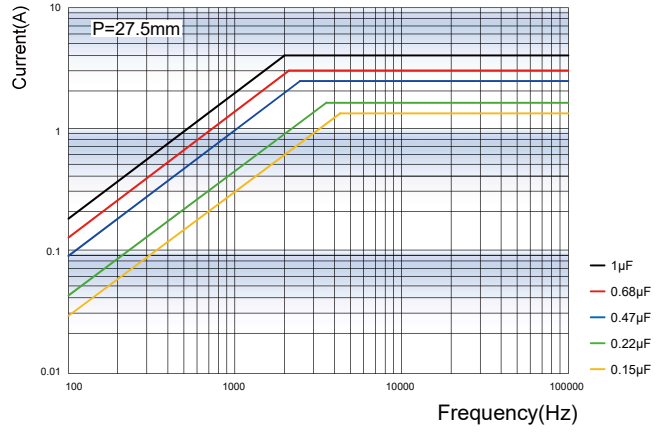
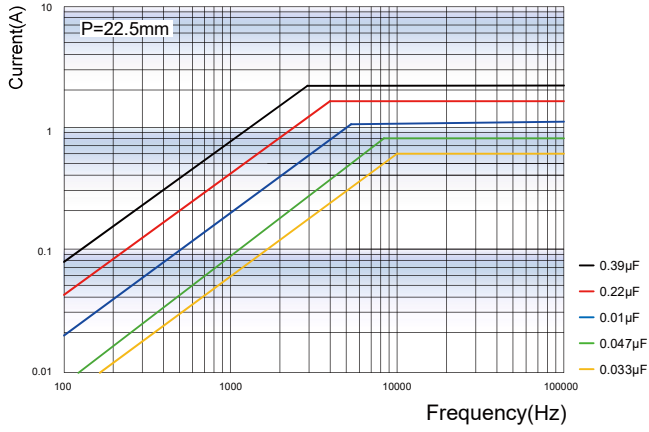
Characteristic Curve (Typical)

Permissible AC current I_{RMS} versus frequency f (for sinusoidal waveforms Top ≤ 85°C)



Characteristic Curve (Typical)

Permissible AC current I_{RMS} versus frequency f (for sinusoidal waveforms $T_{op} \leq 85^\circ C$)



Impedance Z versus frequency f

