

APPROVAL SHEET

WQCF2012FH Series
COMMON MODE CHOKE
AEC-Q200

*Contents in this sheet are subject to change without prior notice.



Features

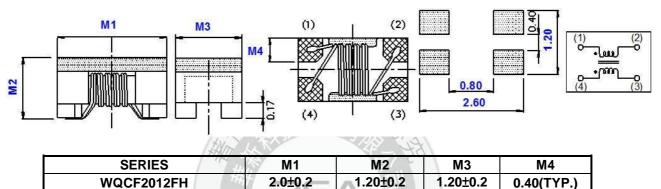
- 1. Wire wound type common mode choke.
- 2. Excellent solderability.
- 3. AEC-Q200

Applications

- 1. HDMI
- 2. DVI . Digital Tvs . DVD recorders and LVDS.
- 3. Automotive

Shape and Dimension

Unit: mm



Ordering Information

WQ	CF	2012	FH	M	670	Р	В
Product Code	Series	Dimensions	Series extension	Tolerance	Value	Packing Code	
WQ: Inductor AEC-Q200	COMMON MODE CHOKE	2.0 * 1.2 mm	FH	M: ± 20%	670 = 67OHM 120 = 120OHM	P=7" Reeled (Embossed tape)	B:STD



Electrical Characteristics

WQCF2012FH Series	Z (OHM) @100MHz ±20%	DCR MAX. (Ω)	RATE CURRENT (mA)	Cut-off Frequency (GHz) TYP.	Rated Voltage (Vdc)	Insulation Resistance (MOHM) MIN.
WQCF2012FHM670PB	67	0.25	400			
WQCF2012FHM900PB	90	0.30	370	6	50	10
WQCF2012FHM121PB	120	0.35	330			

TEST INSTRUMENT

Z Tested by Agilent4291B+16193A DCR Tested by Zentech502BC Insulation Resistance Tested by Agilent 4338B

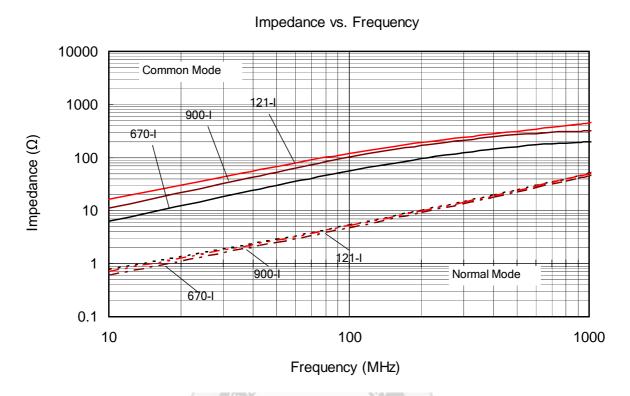
Operating Temperature Rrange: -40°C ~ +125°C

***MSL:LEVEL 1**

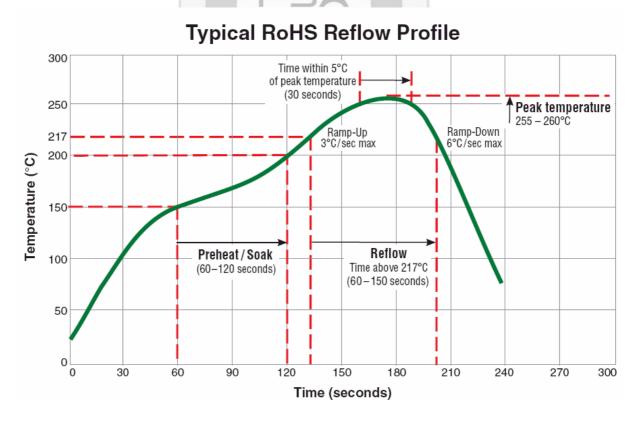




TYPICAL IMPEDANCE VS FREQUENCY



TYPICAL RoHS REFLOW PROFILE



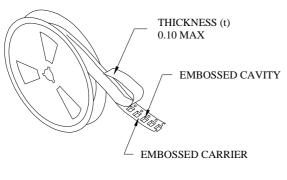


RELIABILITY PERFORMANCE

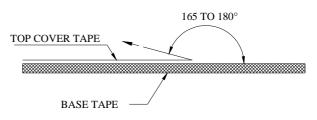
Test Item	Test Condition	Standard Source
High Temperature Exposure (Storage)	1000 hrs. at rated operating temperature (e.g. 125°C part can be stored for 1000 hrs. @ 125℃. Same applies for 105℃ and 85℃. Unpowered. Measurement at 24±4 hours after test conclusion.	MIL-STD-202 Method 108
Temperature Cycling	1000 cycles (-40℃ to +125℃). Note: If 85℃ part o r 105℃ part the 1000 cycles will be at that temperature. Measurement at 24±4 hours after test conclusion. 30min maximum dwell time at each temperature extreme. 1 min. maximum transition time.	JESD22 Method JA-104
Biased Humidity	1000 hours 85℃/85%RH. Unpowered. Measurement at 24±4 hours after test conclusion.	MIL-STD-202 Method 103
Operational Life	1000 hrs. @ 105℃. If 85℃ or 125℃ part will be te sted at that temperature. Measurement at 24±4 hours after test conclusion.	MIL-PRF-27
Mechanical Shock	Method 213. Condition C, Peak Value: 100g's, Duration: 6ms, Waveform: Half-sine Velocity Change: 12.3ft/sec	MIL-STD-202 Method 213
Vibration	5g's for 20 minutes, 12 cycles each of 3 orientations. Note: Use 8"X5" PCB, .031" thick, 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz.	MIL-STD-202 Method 204
Resistance to Soldering Heat	Condition B No pre-heat of samples. Note: Single Wave Solder - Procedure 2 for SMD and Procedure 1 for Leaded with solder within 1.5mm of device body.	MIL-STD-202 Method 210
ESD	Passive Component Human Body Model (HBM) Electrostatic Discharge (ESD) Test. Only direct contact discharge, record the voltage value what the sample can pass.	AEC-Q200-002 Or ISO/DIS10605
Solderability	For both Leaded & SMD. Electrical Test not required. Magnification 50X. Conditions: Leaded: Method A @ 235°C, category 3. SMD: a) Method B, 4 hrs @ 155°C dry heat @ 235°C b) Method B @ 215°C category 3. c) Method D category 3 @ 260°C.	J-STD-002
Flammability	V-0 or V-1 Acceptable	UL-94
Board Flex	60 sec minimum holding time.	AEC-Q200-005
Terminal Strength (SMD)	Force of 900g for 60 seconds.	AEC-Q200-006

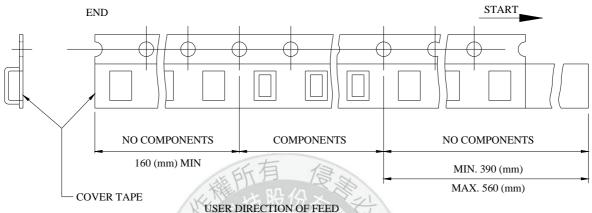


Tape & Reel Packaging Dimensions:



 THE FORCE FOR TEARING OFF COVER TAPE IS 10 TO 100 GRAMS IN THE ARROW DIRECTION.

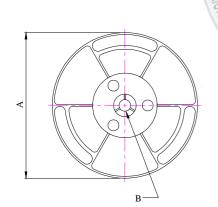


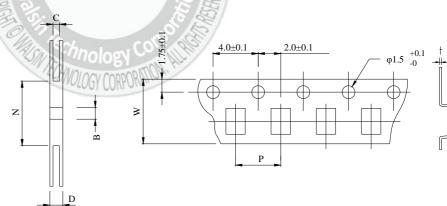


■ CARRIER TAPE REELS (mm)

MATERIAL: PLASTIC

■ DIMENSIONS OF CARRIER TAPE (mm)





UNIT: mm

	А	В	С	D	N	Р	W	t
DIM.	178	13.0	8.4	12.5	75	4.0	8.00	0.24
TOL.	±2.0	±0.8	+1.0-0	MAX	±1.5	±0.10	±0.20	±0.01

Quantity per reel: 2K pcs