



Features

- Formerly J. W. Miller® model
- Current rating up to 7 A
- Compact size
- Tape and reel packaging
- RoHS compliant*

Applications

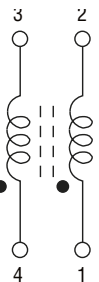
- Filtering
- Common mode

PM3700 Series - SMD Common Mode Choke

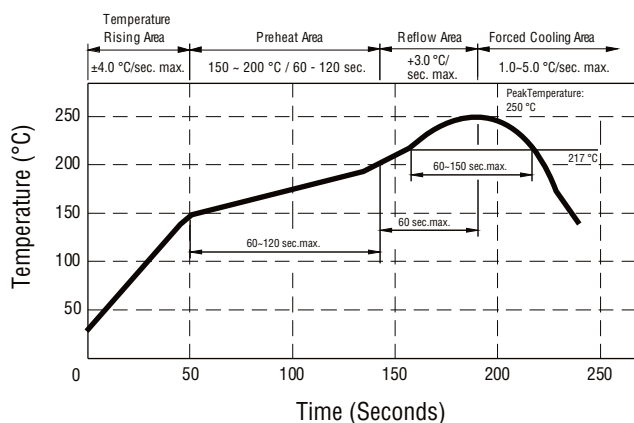
Electrical Specifications

Bourns Part No.	Inductance mH Min. @ 1 kHz / 50 mV	Part Marking	DCR (Ω) Max.	I _{rms} (A)	Leakage Inductance (μ H) Typ.	Typical Frequency Range with 20 dB Atten.
PM3700-10-RC	0.2	201	0.008	7.0	1.6	5 - 55 MHz
PM3700-20-RC	0.5	501	0.010	6.0	2.2	4 - 40 MHz
PM3700-30-RC	0.75	751	0.012	5.5	2.9	1 - 20 MHz
PM3700-40-RC	1.0	102	0.020	4.0	3.9	500 KHz - 40 MHz
PM3700-50-RC	2.0	202	0.030	3.5	0.3	300 KHz - 20 MHz
PM3700-60-RC	5.0	502	0.070	2.0	0.4	100 KHz - 10 MHz
PM3700-70-RC	10	103	0.150	1.5	0.5	50 KHz - 5 MHz
PM3700-80-RC	20	203	0.250	1.0	0.7	25 KHz - 4 MHz

Schematic



Solder Profile



Peak Temperature: 245 ° ± 5 °C max., 30 sec. max.
Maximum Time Above 217 °C: 60-150 seconds



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

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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General Specifications

Temperature Rise ... 35 °C typical at I_{rms}
Operating Temperature .. -55 °C to +125 °C
Storage Temperature

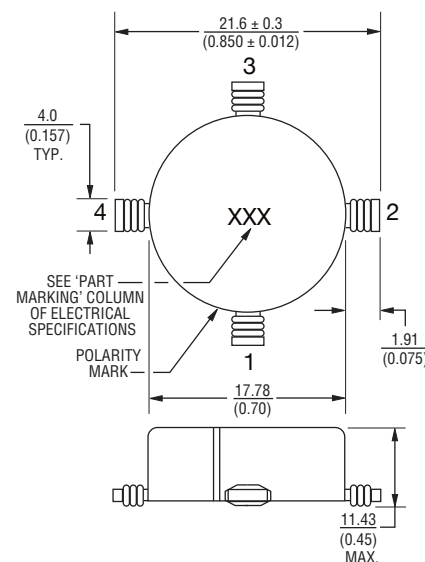
..... -55 °C to +125 °C
Soldering 245 °C, 5 seconds max.
Dielectric Strength 500 Vrms

between windings
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

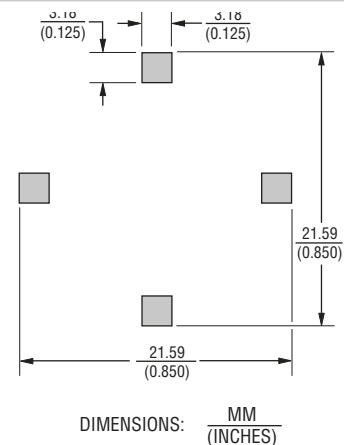
Materials

Core Ferrite
Wire Polyester-coated copper
Terminal Coating Sn-Ag-Cu alloy
Packaging 200 pcs. per 13-inch reel

Product Dimensions



Recommended Pad Layout



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Technical drawing of a 4-pin D-subminiature connector. The drawing includes a top view, a side view, and a detail view of the pin. Dimensions are provided in millimeters (mm) and inches (inches).

Top View Dimensions:

- Overall width: 44.00 ± 0.30 (1.732 $\pm$.012)
- Pin pitch: 28.00 ± 0.10 (1.102 $\pm$.004)
- Pin diameter: 2.00 ± 0.10 (.079 $\pm$.004)
- Pin spacing from edge: 4.00 ± 0.10 (.157 $\pm$.004)
- Pin diameter: $1.50 \pm 0.10/-0.00$ (.059 $\pm$.004/-0.000)
- Pin diameter: 2.00 (.079) MIN.
- Pin diameter: 1.75 ± 0.10 (.069 $\pm$.004)
- Pin diameter: 20.20 ± 0.10 (.795 $\pm$.004)
- Pin diameter: 40.40 ± 0.20 (1.590 $\pm$.008)

Side View Dimensions:

- Overall height: 11.60 ± 0.10 (.457 $\pm$.004)
- Pin height: 5.9 (.232)
- Pin height: 4.0 (.157)
- Pin height: 0.40 ± 0.05 (.016 $\pm$.002)
- Pin height: 11.60 ± 0.10 (.457 $\pm$.004)
- Pin height: 5.9 (.232)
- Pin height: 4.0 (.157)
- Pin height: 0.40 ± 0.05 (.016 $\pm$.002)

Detail View Dimensions:

- Overall width: 25.52 (1.005)
- Pin height: 11.60 ± 0.10 (.457 $\pm$.004)
- Pin height: 5.9 (.232)
- Pin height: 4.0 (.157)
- Pin height: 0.40 ± 0.05 (.016 $\pm$.002)

Other Dimensions:

- Pin diameter: 330 (12.99) DIA.
- Pin diameter: 2.0 ± 0.5 (.079 $\pm$.020)
- Pin diameter: 21.0 ± 0.8 (.827 $\pm$.031)
- Pin diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Pin diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Pin diameter: 50.4 (1.984)
- Pin diameter: 50.0 (1.969)
- Pin diameter: 46.0 (1.811)

Notes:

- USER DIRECTION OF FEED
- QTY: 200 PCS. PER REEL
- THICKNESS 0.10 (.004) MAX.
- EMBOSSED CAVITY
- EMBOSSED CARRIER

Dimensions: MM (INCHES)

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