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Contents

| I | DI | P Type |
|---|-----|---|
| | C | Common Mode Power Line |
| | | SH Series3 |
| | | SHO Series · · · · · · 5 |
| | | SBT-03W Series ······6 |
| | C | Common Mode Signal Line |
| | | SBT-01W Series ······7 |
| | | Toroidal Cores with Wound Cables · · · · · · 8 |
| | | DIP Noise Filters D-03C, 03C1, 05N1, 07C1, 08C2, 08C2A ••9 |
| | | DIP Noise Filters D-16C · · · · · · · · · · · · · · · · · · · |
| | | DIP Noise Filters D-37C, 40C, 42C, 45C, 47C · · · · · · 12 |
| | | DIP Noise Filters D-55C, 58C · · · · · · · · · · · · · · · · · · · |
| | C | Common Mode for Telephone Sets |
| | | Noise Filters for Telephone Sets ST-101, 201, 202, 202S · · · 15 |
| | | Noise Filters for Telephone Sets ST-101A, 201A, 202A · · · · · 16 |
| | | Noise Filters for Telephone Sets ST-110AV, 110AH, 110BV, 110BH ••17 |
| | | Noise Filters for Telephone Sets ST-101F2, 101F4 · · · · · · · · 18 |
| | | Noise Filters for Telephone Sets ST-104A4, 204A Series · · · 19 |
| | N | lormal Mode |
| | | SBT Series ······20 |
| | | SNT Series · · · · · 21 |
| | | Bead Inductors (Lead Type)22 |
| | _ | Bead Inductors(Winding Type) · · · · · 25 |
| | E | MC Filter DFD Series · · · · · · · · · · · · · · · · · · · |
| | | |
| | C I | Tape and Reel Dimensions |
| • | | MD Type |
| | C | Common Mode Power Line SBS9080 Series · · · · · · · · · · · · · · · · · · · |
| | | SBP Series · · · · · · · · · · · · · · · · · · · |
| | | DCM Series · · · · · · · · · · · · · · · · · · · |
| | _ | |
| | C | Common Mode Signal Line EMC Chip Filters M-500CT/M-600T Series······33 |
| | | Precautions · · · · · · · · · · · · · · · · · · · |
| | | Tape and Reel Dimensions · · · · · · · · · · · · · · · · · · · |
| | | Tape and neel Dimensions |



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Common Mode Power Line

SH Series

[RoHS Compliant]

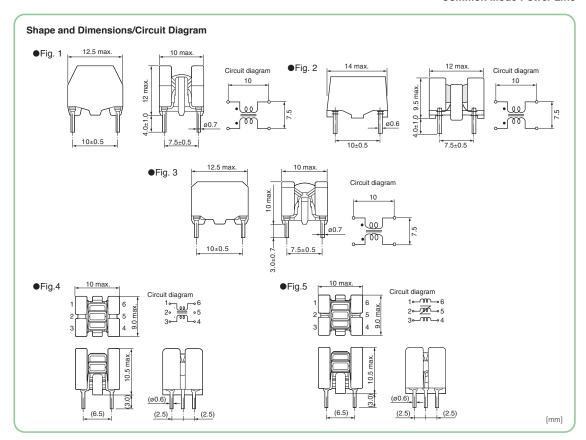


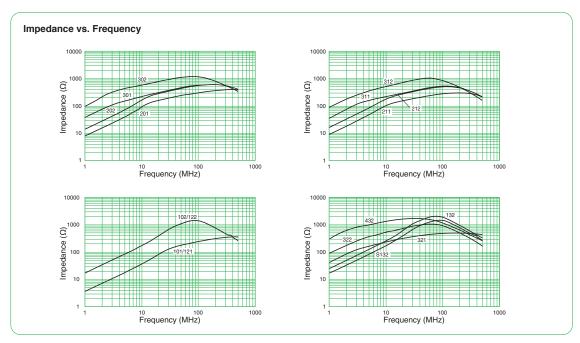
| Mode | el | Rated voltage DC (V) | Rated current (A) | Inductance (µH) min. | DC resistance $(m\Omega/line)$ max. | Operating temperature range (°C) | Shape and dimensions |
|-------------|---------|-------------------------|-------------------|-------------------------|-------------------------------------|--|----------------------|
| | SH-101 | 150 | 3.0 | 0.35 | 16 | -25 to +80 | |
| | SH-102 | 150 | 3.0 | 1.5 | 26 | -25 to +80 | |
| | SH-201 | 150 | 3.0 | 0.5 | 16 | -25 to +80 | Fig. 1 |
| | SH-202 | 150 | 3.0 | 1.5 | 20 | -25 to +80 | |
| | SH-301 | 150 | 3.0 | 3.2 | 22 | -25 to +80 | |
| | SH-302 | 150 | 3.0 | 7.5 | 26 | -25 to +80 | |
| _ | SH-211 | 150 | 3.0 | 0.5 | 18 | -25 to +80 | |
| _ | SH-212 | 150 | 3.0 | 1.5 | 23 | -25 to +80 | Fig. 2 |
| for 2 lines | SH-311 | 150 | 3.0 | 3.2 | 25 | -25 to +80 | |
| _ | SH-312 | 150 | 3.0 | 7.5 | 30 | -25 to +80 | |
| | SH-121 | 50 | 3.0 | 0.35 | 11 | -25 to +80 | |
| _ | SH-122 | 50 | 3.0 | 1.5 | 20 | -25 to +80 | Fig. 3 |
| | SH-321 | 50 | 3.0 | 3.5 | 14 | -25 to +80 | |
| | SH-322 | 50 | 3.0 | 7.5 | 20 | -25 to +80 | |
| | SH-132 | 50 | 2.4 | 2.6 | 51 | -25 to +60 | Fig. 4 |
| | SH-432 | 50 | 2.4 | 30.0 | 51 | -25 to +60 | |
| for 3 lines | SH-S132 | 50 | 1.0 | 1.7 | 81 | -25 to +80 | Fig. 5 |

DC Line Filters VOL.12



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DC Line Filters VOL.12



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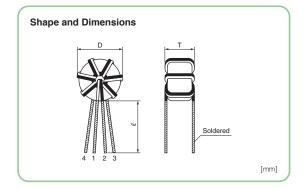
Common Mode Power Line

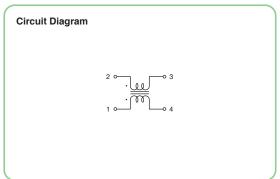
SHO Series

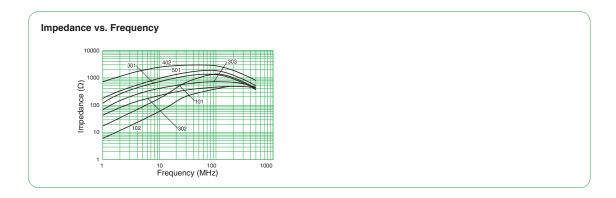
[RoHS Compliant]



| Model | Rated voltage Rated current | | Inductance | DC resistance | Operating temperature range | | Dimensions(mm) | | |
|---------|-----------------------------|-----|------------|----------------|-----------------------------|---------|----------------|------|--|
| Wiodei | DC (V) | (A) | (μH) min. | (mΩ/line) max. | (°C) | D | T | l | |
| SHO-101 | 50 | 4.0 | 2.0 | 15.5 | -25 to +70 | 11Max. | 7.5Max. | 10±3 | |
| SHO-102 | 50 | 4.0 | 0.6 | 10.0 | -25 to +70 | 11Max. | 7.5Max. | 10±3 | |
| SHO-301 | 50 | 4.0 | 12.0 | 15.5 | -25 to +70 | 11Max. | 7.5Max. | 10±3 | |
| SHO-302 | 50 | 4.0 | 3.9 | 10.0 | -25 to +70 | 11Max. | 7.5Max. | 10±3 | |
| SHO-303 | 50 | 5.0 | 6.0 | 8.0 | -25 to +75 | 11Max. | 8Max. | 10±3 | |
| SHO-402 | 50 | 0.8 | 99.0 | 120.0 | -25 to +80 | 7.5Max. | 5Max. | 4±2 | |
| SHO-501 | 50 | 8.0 | 17.5 | 105.0 | -25 to +80 | 6.2Max. | 3.4Max. | 4±2 | |







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Common Mode Power Line

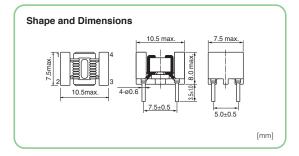
SBT-03W Series

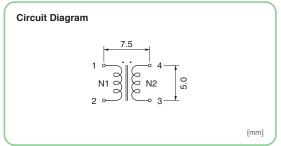
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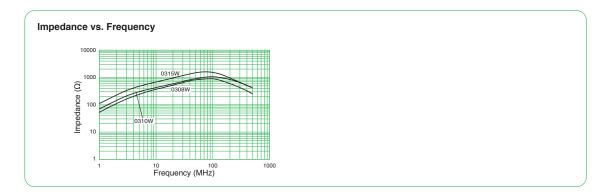


| Model | Rated voltage DC (V) | Rated current (A) | Inductance (100kHz, 1mA) (µH) min. | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) | Wire size (mmø) | Packaging |
|-----------|-------------------------|----------------------|--|--------------------------------|--|--------------------|-----------------|
| SBT-0308W | 50 | 3.0 | 6.75 | 20 | -25 to +85 | 0.4 | |
| SBT-0310W | 50 | 2.5 | 7.7 | 30 | -25 to +80 | 0.35 | Bulk (100 pcs.) |
| SBT-0315W | 50 | 2.0 | 11.9 | 45 | -25 to +75 | 0.3 | |

• Withstanding voltage: 200VDC (one minute, between lines) • Insulation resistance: more than $10M\Omega$ (100VDC, between lines)







DC Line Filters VOL.12



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Common Mode Signal Line

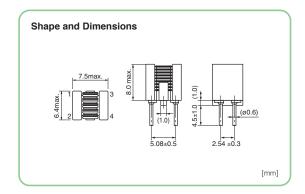
SBT-01W Series

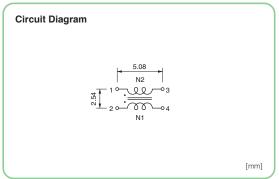
[RoHS Compliant]

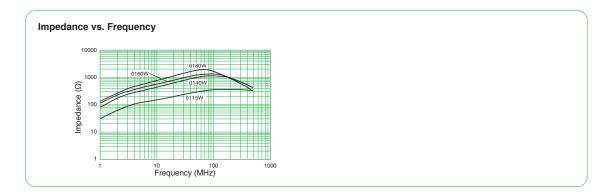


| Model | Rated voltage DC (V) | Rated current (mA) | Inductance (1kHz, 70mA) (μΗ) | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) | Packaging |
|-----------|-------------------------|--------------------|------------------------------------|--------------------------------|--|----------------|
| SBT-0115W | 50 | 500 | ≧5 | 30 | -25 to +70 | |
| SBT-0140W | 50 | 500 | 40±35% | 40 | -25 to +70 | Bulk (100ppg) |
| SBT-0160W | 50 | 500 | 60±35% | 45 | -25 to +70 | Bulk (100pcs.) |
| SBT-0180W | 50 | 500 | 80±35% | 55 | -25 to +70 | |

• Withstanding voltage: 200VDC (one minute, between lines) • Insulation resistance: more than $10M\Omega$ (100VDC, between lines)







DC Line Filters VOL.12



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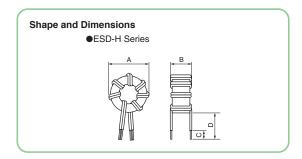
Toroidal Cores with Wound Cables

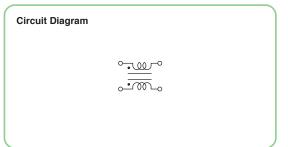
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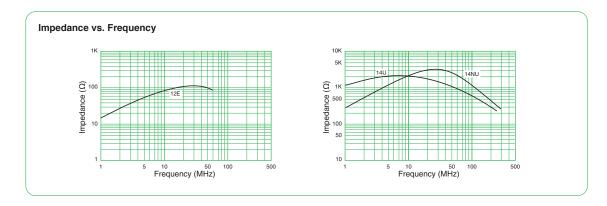


| Model | Core | Dimensions (mm) | | | | No. of turns | s Wire | Winding status | Frequency range |
|------------|------------|-----------------|----|---|----|---------------|---------------------|------------------|-----------------|
| | | Α | В | С | D | NO. OI LUIIIS | VVIIG | willuling status | (MHz) |
| ESD-H-12E | ESD-R-12C | 16 | 20 | 5 | 25 | 7 | UL1007 AWG26 (ø0.4) | Bi-filar winding | Up to 300 |
| ESD-H-14U | ESD-R-14A | 17.5 | 7 | 5 | 15 | 10 | UL1609 AWG26 (ø0.4) | Bi-filar winding | Up to 100 |
| ESD-H-14NU | ESD-R-14C2 | 17.5 | 7 | 5 | 15 | 10 | UL1609 AWG26 (ø0.4) | Bi-filar winding | Up to 300 |

• Recommended soldering conditions: 350±10°C, 2 to 3 sec. • Rated current:1A • Rated Voltage: 125V







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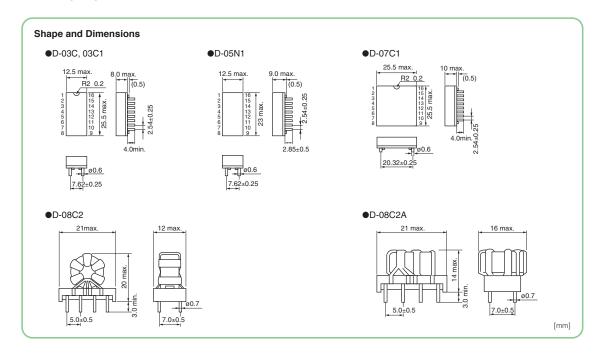
DIP Noise Filters D-03C, 03C1, 05N1, 07C1, 08C2, 08C2A

[RoHS Compliant]



| Model | Circuit diagram | | Number of terminals/Circuits | Rated voltage DC (V) | Rated current DC (mA/Line) | DC resistance $(m\Omega/Line)$ max. | Operating temperature range (°C) |
|---------|----------------------------|---------|-------------------------------|-------------------------|-------------------------------|-------------------------------------|--|
| D-03C | 1 16 2 00 15 | 4 cores | 16P/2 circuits x 4 | 50 | 150 | 75 | -20 to +70 |
| D-03C1 | 7— | 4 cores | Common mode | 50 | 100 | 150 | –20 to +70 |
| D-05N1 | 1 16 2 15 8 9 | 8 cores | 16P/8 circuits Normal mode | 50 | 100 | 10 | -20 to +70 |
| D-07C1 | 1 16 2 15 8 9 | 1 core | 16P/8 circuits Common mode | 50 | 300 | 100 | -20 to +70 |
| D-08C2 | 1 8 2 7 3 6 4 0 5 | 1 core | 8P/4 circuits Common mode | 50 | 2300 | 25 | -20 to +70 |
| D-08C2A | 1 8 2 7 3 6 4 5 | 1 core | 8P/4 circuits Common mode | 50 | 500 | 70 | -25 to +65 |

• Withstanding voltage: 200VDC (one minute, between lines) • Insulation resistance: more than $10M\Omega$ (100VDC, between lines)

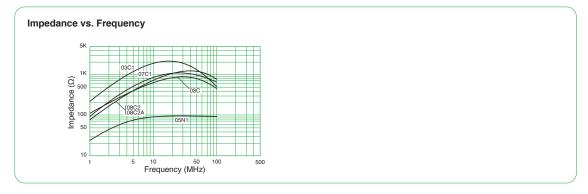


DC Line Filters VOL.12



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Common Mode Signal Line



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Common Mode Signal Line

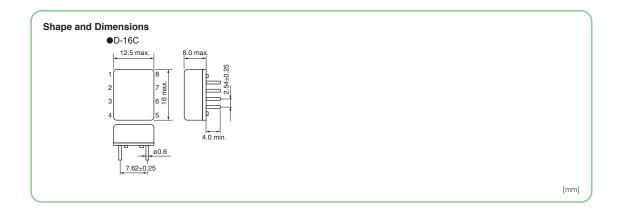
DIP Noise Filters D-16C

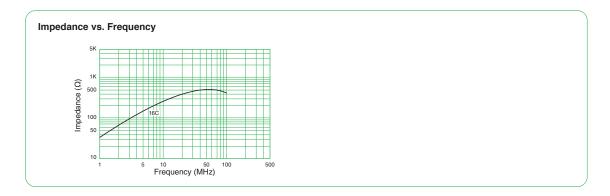
[RoHS Compliant]



| Model | Circuit diagram | | Number of terminals/ Circuits | Rated voltage DC (V) | Rated current DC (mA/Line) | DC resistance $(m\Omega/Line)$ max. | Operating temperature range (°C) |
|-------|--------------------------|--------|-------------------------------|-------------------------|-------------------------------|-------------------------------------|--|
| D-16C | 1 8 2 7 3 6 4 5 | 1 core | 8P/4 circuits Common mode | 50 | 100 | 50 | -20 to +70 |

Withstanding voltage: 200VDC (one minute, between lines)
 Insulation resistance: more than 10MΩ (100VDC, between lines)





DC Line Filters VOL.12



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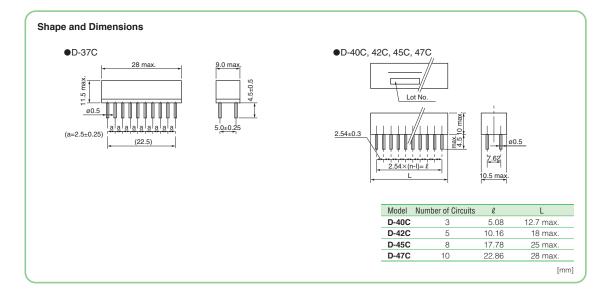
DIP Noise Filters D-37C, 40C, 42C, 45C, 47C

[RoHS Compliant]



| Model | Circuit diagram | | Number of terminals/ Circuits | Rated voltage DC (V) | Rated current DC (mA/Line) | DC resistance $(m\Omega/Line)$ max. | Operating temperature range (°C) |
|-------|-------------------------|--------|---------------------------------|-------------------------|-------------------------------|-------------------------------------|--|
| D-37C | 1 20 2 19 10 11 | 1 core | 20P/10 circuits Common mode | 50 | 300 | 200 | -20 to +70 |
| D-40C | 1 — 6 2 — 5 3 — 4 | 1 core | 6P/ 3 circuits Common mode | 50 | 300 | 200 | -20 to +70 |
| D-42C | 1 10 2 9 5 6 | 1 core | 10P/5 circuits Common mode | 50 | 300 | 200 | -20 to +70 |
| D-45C | 1 | 1 core | 16P/8 circuits Common mode | 50 | 300 | 150 | -20 to +70 |
| D-47C | 1 - 20 20 20 19 10 - 11 | 1 core | 20P/ 10 circuits Common mode | 50 | 300 | 200 | -20 to +70 |

• Withstanding voltage: 200VDC (one minute, between lines) • Insulation resistance: more than $10M\Omega$ (100VDC, between lines)



DC Line Filters VOL.12

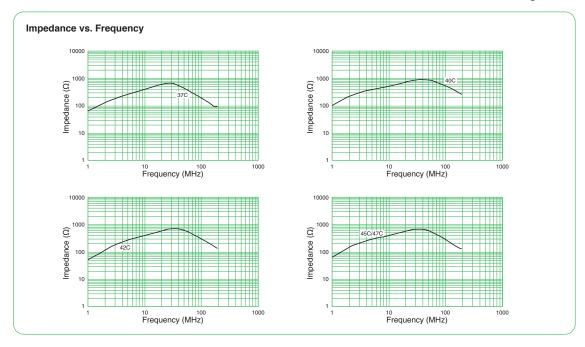


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Common Mode Signal Line



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Common Mode Signal Line

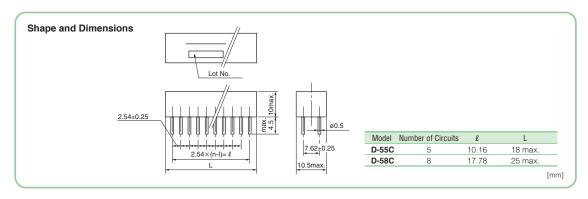
DIP Noise Filters D-55C, 58C

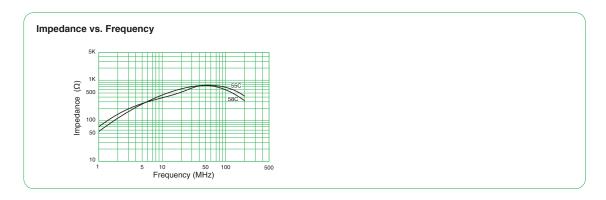
[RoHS Compliant]



| Model | Circuit diagram | | Number of terminal/ Circuits | Rated voltage DC (V) | Rated current DC (mA/Line) | DC resistance $(m\Omega/Line)$ max. | Operating temperature range (°C) |
|-------|--------------------------------|--------|-------------------------------|-------------------------|-------------------------------|-------------------------------------|--|
| D-55C | 1 | 1 core | 10P/5 circuits Common mode | 50 | 300 | 200 | -20 to +70 |
| D-58C | 1 — 16 2 — 15 8 — 00 — 9 | 1 core | 16P/8 circuits Common mode | 50 | 300 | 200 | -20 to +70 |

• Withstanding voltage: 200VDC (one minute, between lines) • Insulation resistance: more than 10MΩ (100VDC, between lines)





DC Line Filters VOL.12



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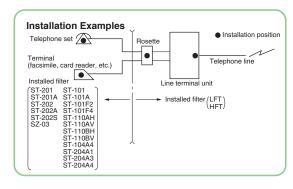
Noise Filters for Telephone Sets ST-101, 201, 202, 202S

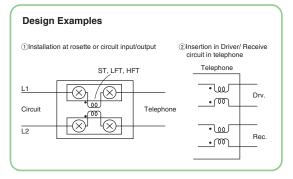
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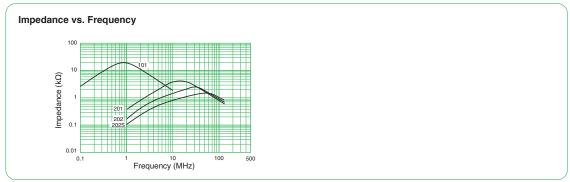


| Model | Frequency range (MHz) | Impedance $(k\Omega)$ min. | Rated voltage DC (V) | Rated current (mA) | DC resistance $(m\Omega/Line)$ max. | Operating temperature range (°C) | Remarks |
|---------|--------------------------|----------------------------|-------------------------|--------------------|-------------------------------------|----------------------------------|---------|
| ST-101 | 0.5 to 7 | 3 (at 0.5 MHz) | 50 | 200 | 180 | -20 to +75 | AM band |
| ST-201 | 7 to 40 | 1.5 (at 7 MHz) | 50 | 200 | 100 | -20 to +75 | FM band |
| ST-202 | 7 to 100 | 0.6 (at 100 MHz) | 50 | 1000 | 40 | -20 to +75 | FM band |
| ST-202S | 7 to 100 | 0.6 (at 100 MHz) | 50 | 1000 | 35 | -20 to +75 | FM band |

- $\bullet \ \ \text{Withstanding voltage: 500VDC (one \ minute, \ between \ lines)} \qquad \bullet \ \ \text{Insulation resistance: more than 10M} \Omega \ (250\text{VDC, between lines})$
- Recommended soldering conditions: 350±10°C, 2 to 3 sec.







DC Line Filters VOL.12



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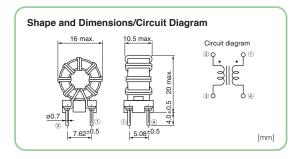
Noise Filters for Telephone Sets ST-101A, 201A, 202A

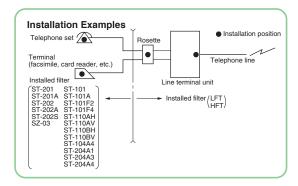
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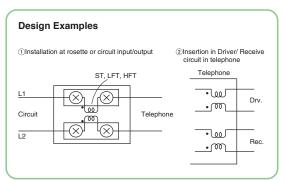


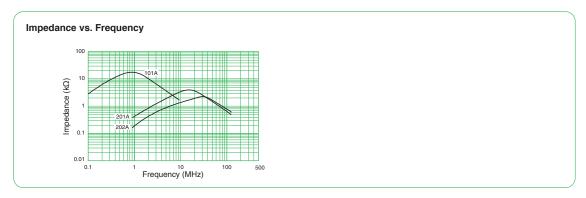
| Model | Frequency range (MHz) | Impedance $(k\Omega)$ min. | Rated voltage DC (V) | Rated current (mA) | DC resistance $(m\Omega/Line)$ max. | Operating temperature range (°C) | Remarks |
|---------|--------------------------|----------------------------|-------------------------|--------------------|-------------------------------------|----------------------------------|---------|
| ST-101A | 0.5 to 7 | 3 (at 0.5 MHz) | 50 | 200 | 250 | -20 to +65 | AM band |
| ST-201A | 7 to 40 | 1.5 (at 7 MHz) | 50 | 200 | 150 | -20 to +65 | FM band |
| ST-202A | 7 to 100 | 0.6 (at 100 MHz) | 50 | 1000 | 50 | -20 to +65 | FM band |

Withstanding voltage: 500VDC (one minute, between lines)
 Insulation resistance: more than 10MΩ (100VDC, between lines)









DC Line Filters VOL.12



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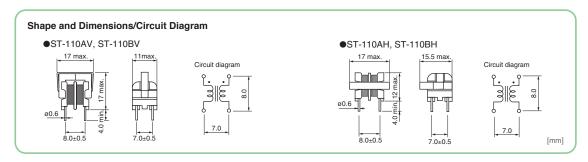
Noise Filters for Telephone Sets ST-110AV, 110AH, 110BV, 110BH

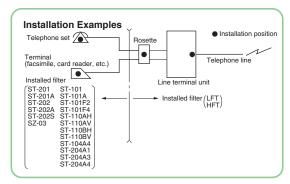
[RoHS Compliant]

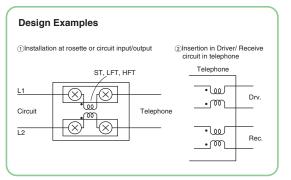


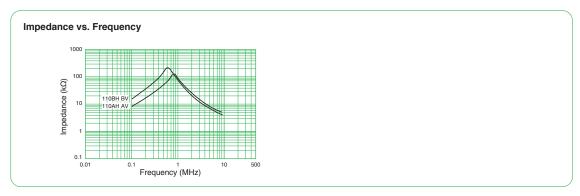
| Model | Frequency range (MHz) | Impedance $(k\Omega)$ min. | Rated voltage DC (V) | Rated current (mA) | DC resistance (Ω/Line) max. | Operatings temperature range (°C) | Remarks |
|----------|--------------------------|----------------------------|-------------------------|--------------------|---|---|---------|
| ST-110A\ | 0.5 to 7 | 27 (at 0.5 MHz) | 50 | 300 | 3 | -20 to +75 | AM band |
| ST-110Al | d 0.5 to 7 | 27 (at 0.5 MHz) | 50 | 300 | 3 | -20 to +75 | AM band |
| ST-110B\ | 0.5 to 7 | 150 (Resonant) | 50 | 150 | 7.5 | -20 to +75 | AM band |
| ST-110BI | d 0.5 to 7 | 150 (Resonant) | 50 | 150 | 7.5 | -20 to +75 | AM band |

Withstanding voltage: 500VDC (one minute, between lines)
 Insulation resistance: more than 10MΩ (250VDC, between lines)









DC Line Filters VOL.12



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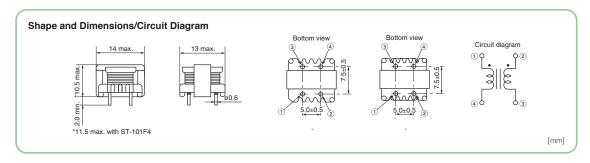
Noise Filters for Telephone Sets ST-101F2, **101F4**

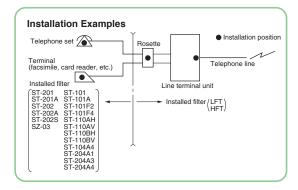
[RoHS Compliant]

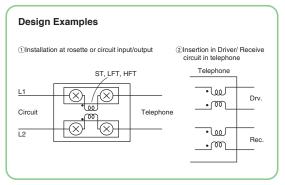


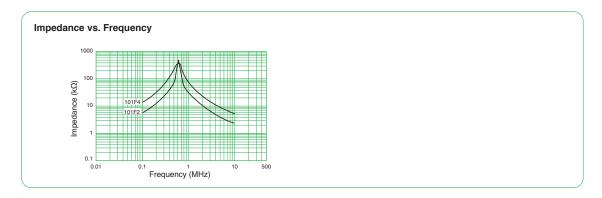
| Model | Frequency range (MHz) | Impedance $(k\Omega)$ min. | Rated voltage DC (V) | Rated current (mA) | DC resistance (Ω/Line) max. | Operating temperature range (°C) | Remarks |
|----------|--------------------------|----------------------------|-------------------------|--------------------|---|--|---------|
| ST-101F2 | 0.5 to 7 | 40 (at 600 kHz) | 50 | 200 | 2.7 | -20 to +75 | AM band |
| ST-101F4 | 0.5 to 7 | 60 (at 600 kHz) | 50 | 200 | 3.5 | -20 to +75 | AM band |

• Withstanding voltage: 500VDC (one minute, between lines) • Insulation resistance: more than $10M\Omega$ (250VDC between lines)









DC Line Filters VOL.12



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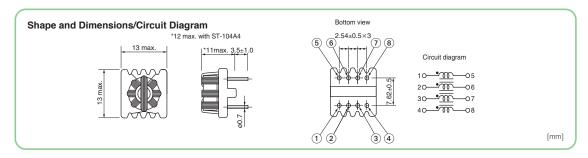
Noise Filters for Telephone Sets ST-104A4, 204A Series

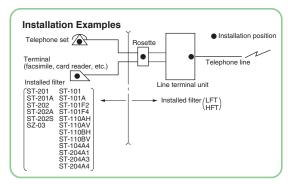
[RoHS Compliant]

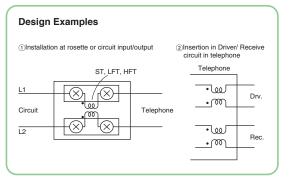


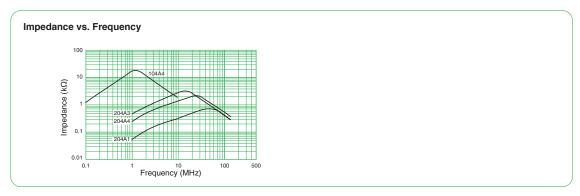
| Model | Frequency range (MHz) | Impedance $(k\Omega)$ min. | Rated voltage DC (V) | Rated current (mA) | DC resistance (Ω/Line) max. | Operating temperature range (°C) | Remarks |
|----------|--------------------------|----------------------------|-------------------------|--------------------|---|--|---------|
| ST-104A4 | 0.5 to 7 | 3.0 (at 0.5 MHz) | 50 | 500 | 0.36 | -20 to +75 | AM band |
| ST-204A1 | 7 to 100 | 0.25 (at 10 MHz) | 50 | 500 | 0.10 | -20 to +75 | FM band |
| ST-204A3 | 7 to 40 | 1.0 (at 7 MHz) | 50 | 500 | 0.17 | -20 to +75 | FM band |
| ST-204A4 | 7 to 40 | 0.6 (at 7 MHz) REF | 50 | 500 | 0.12 | -20 to +75 | FM band |

• Withstanding voltage: 500VDC (one minute, between lines) • Insulation resistance: more than $10M\Omega$ (250VDC, between lines)









DC Line Filters VOL.12



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SBT Series

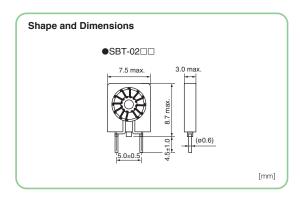
[RoHS Compliant]

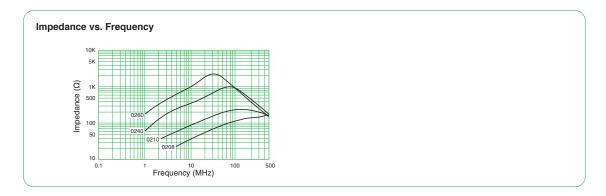


• Tape and Reel Dimensions (see page 28)

| Model | Rated voltage DC (V) | Rated current (mA) | Inductance (1kHz, 70mA) (μΗ) | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) | Packaging |
|-----------|-------------------------|--------------------|------------------------------------|--------------------------------|--|----------------|
| SBT-0208□ | 50 | 500 | 8±50% | 20 | -25 to +70 | |
| SBT-0210□ | 50 | 500 | 10±50% | 20 | -25 to +70 | Bulk (100pcs.) |
| SBT-0240□ | 50 | 500 | 40±35% | 34 | -25 to +70 | Bulk (100pcs.) |
| SBT-0260□ | 50 | 500 | 60±35% | 50 | -25 to +70 | |

• Taping (2000 pcs./ reel x 6), TFF Flat taping (1000pcs./ box x 10)





DC Line Filters VOL.12



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SNT Series

[RoHS Compliant]

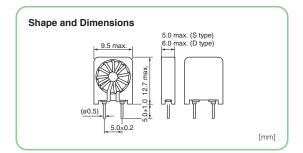


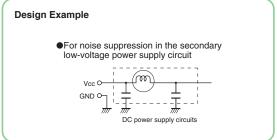
• Tape and Reel Dimensions (see page 28)

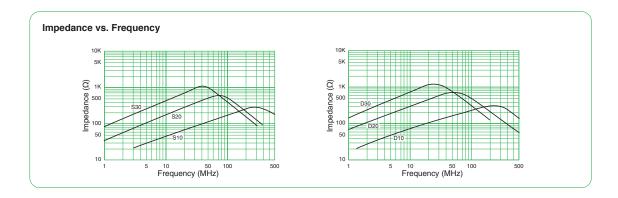
| Model | Rated current* (A) | Inductance (µH) min. | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) | Packaging |
|----------|-----------------------|-------------------------|--------------------------------|--|-----------------|
| SNT-S10□ | 3.0 | 1.5 | 25 | -20 to +60 | |
| SNT-S20□ | 1.5 | 6 | 35 | -20 to +60 | |
| SNT-S30□ | 0.5 | 13 | 95 | -20 to +60 | Bulk (100 pcs.) |
| SNT-D10□ | 3.0 | 2.5 | 25 | -20 to +60 | bulk (100 pcs.) |
| SNT-D20□ | 1.5 | 10 | 45 | -20 to +60 | |
| SNT-D30□ | 0.5 | 20 | 98 | -20 to +60 | |

*The rated current is for the wire and it is different from the inductance guaranteeing values.

• Taping (1000 pcs./ reel) • Flat taping (SNT-S type: 1000 pcs./ reel), (SNT-D type: 500 pcs./ reel)







DC Line Filters VOL.12



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Bead Inductors (Lead Type)

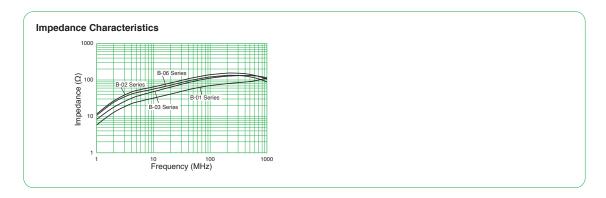
[RoHS Compliant]



| Model | Rated current DC (A) | Impedance (Ω) | Operating temperature range (°C) | |
|-------------|-------------------------|----------------------|----------------------------------|--|
| B-01-Series | | 2 (at 1 MHz) | | |
| B-02-Series | 5 | 4 (at 1 MHz) | -20 to +70 | |
| B-03-Series | 5 | 5 (at 1 MHz) | -20 10 +70 | |
| B-06-Series | | 40 (at 10 MHz) | | |

Note: Rated current values are not guaranteed by impedance levels; these values are permissible levels when the lead wire temperature rise is 20°C.

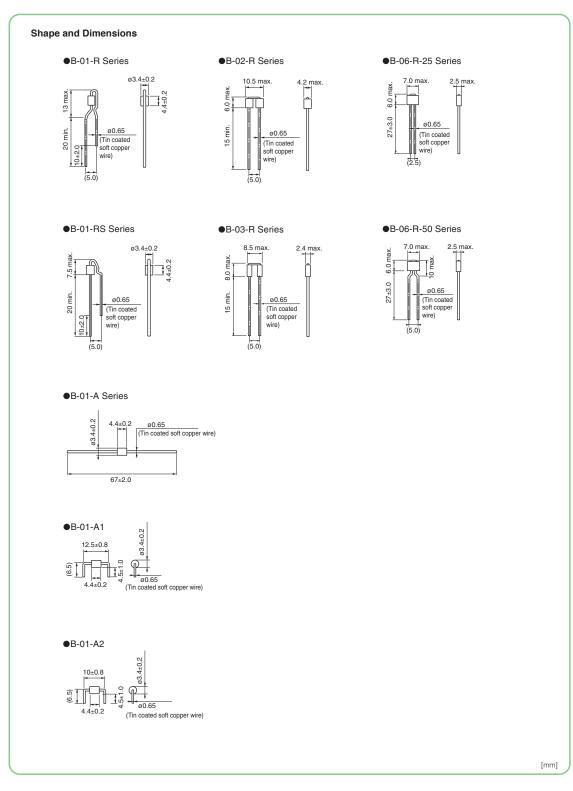
| Model | Shape | Packaging |
|-------------|--------------------------|----------------------------|
| B-01-R | Single-bead, radial-lead | Bulk type (100 pcs./bag) |
| B-01-RT | Single-bead, radial-lead | Tape type (2000 pcs./reel) |
| B-01-RTF | Single-bead, radial-lead | Tape type (2000 pcs./box) |
| B-01-RS | Single-bead, radial-lead | Bulk type (100 pcs./bag) |
| B-01-RTS | Single-bead, radial-lead | Tape type (2000 pcs./reel) |
| B-01-RTSF | Single-bead, radial-lead | Tape type (2000 pcs./box) |
| B-01-A | Single-bead, axial-lead | Bulk type (100 pcs./bag) |
| B-01-A1 | Single-bead, axial-lead | Bulk type (250 pcs./bag) |
| B-01-A2 | Single-bead, axial-lead | Bulk type (250 pcs./bag) |
| B-01-AT | Single-bead, axial-lead | Tape type (5000 pcs./reel) |
| B-01-ATF | Single-bead, axial-lead | Tape type (1500 pcs./box) |
| B-01-AT1F | Single-bead, axial-lead | Tape type (2000 pcs./box) |
| B-02-R | Double-bead, radial-lead | Bulk type (100 pcs./bag) |
| B-02-RT | Double-bead, radial-lead | Tape type (2000 pcs./reel) |
| B-02-RTF | Double-bead, radial-lead | Tape type (1500 pcs./box) |
| B-03-R | Double-bead, radial-lead | Bulk type (100 pcs./bag) |
| B-03-RT | Double-bead, radial-lead | Tape type (2000 pcs./reel) |
| B-06-R-25 | Double-bead, radial-lead | Bulk type (100 pcs./bag) |
| B-06-RTF-25 | Double-bead, radial-lead | Tape type (1500 pcs./reel) |
| B-06-R-50 | Double-bead, radial-lead | Bulk type (100 pcs./bag) |
| B-06-RTF-50 | Double-bead, radial-lead | Tape type (1500 pcs./box) |



DC Line Filters VOL.12



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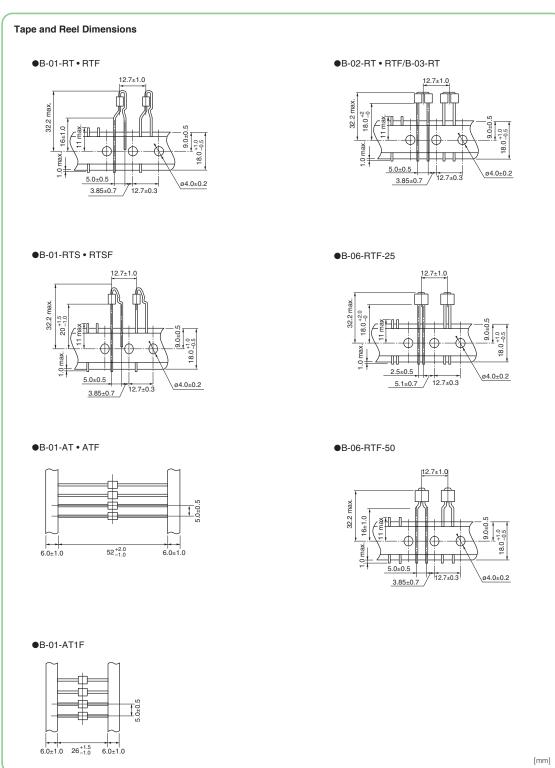


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Normal Mode



DC Line Filters VOL.12



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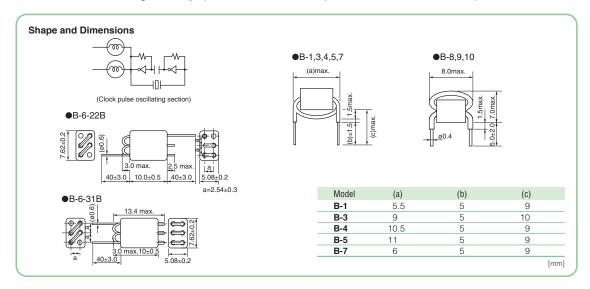
Bead Inductors (Winding Type)

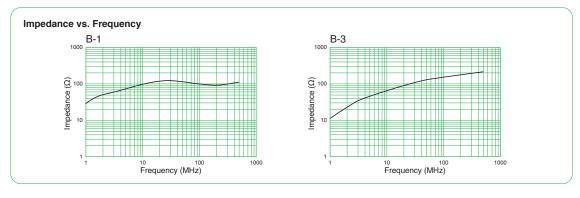
[RoHS Compliant]



| Model | Rated current DC(A) | Core | Wire | No. of turns |
|---------|---------------------|-----------|---|--------------|
| B-1 | 1.5 | B-20F-28 | Teflon wire (ø0.26 : single) / Color: White | 2T |
| B-3 | 3.5 | B-20L-48B | Teflon wire (ø0.51 : single) / Color: Red | 2T |
| B-4 | 1.5 | B-20L-44 | Teflon wire (ø0.26 : single) / Color: White | 2T |
| B-5 | 1.5 | B-20L-44 | Teflon wire (ø0.26 : single) / Color: White | 3T |
| B-7 | 2.5 | B-20F-28 | Teflon wire (ø0.32 : single) / Color: Green | 2T |
| B-8 | 2.5 | B-20L-48B | Teflon wire (ø0.4 : single) / Color: Blue | 2T |
| B-9 | 2.5 | B-20L-48B | Teflon wire (ø0.4 : single) / Color: Yellow | 3T |
| B-10 | 2.5 | B-20L-48B | Teflon wire (ø0.4 : single) / Color: Black | 4T |
| B-6-22B | 2.0 | _ | Soft copper wire (ø0.6) | |
| B-6-31B | 2.0 | _ | Soft copper wire (ø0.6) | |

Note: Rated current values are not guaranteed by impedance levels; these values are permissible levels when the lead wire temperature rise is 20°C.



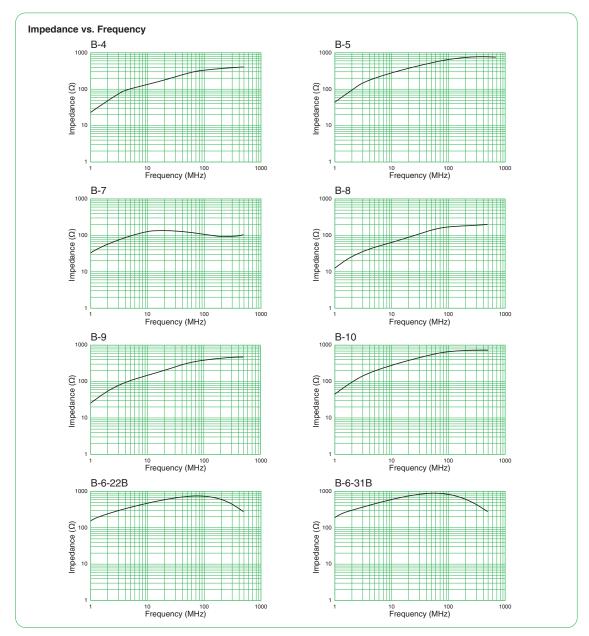


DC Line Filters VOL.12



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Normal Mode



DC Line Filters VOL.12



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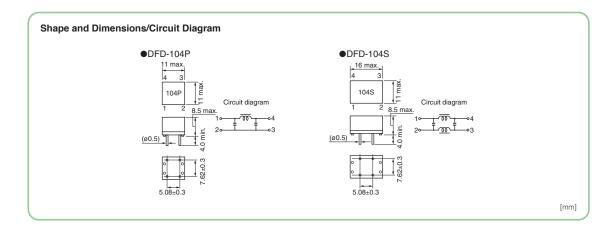
DFD Series

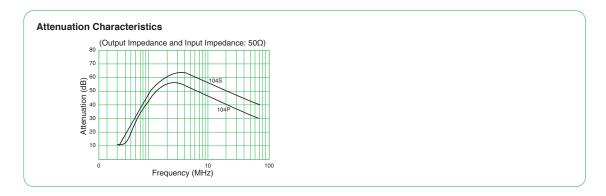
[RoHS Compliant]



| Model | Rated voltage DC (V) | Rated current DC (A) | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) |
|----------|-------------------------|-------------------------|--------------------------------|--|
| DFD-104P | 50 | 2.0 | 100 | -25 to +85 |
| DFD-104S | 50 | 2.0 | 100 | -25 to +85 |

 $\bullet \text{ Withstanding voltage: } 125\text{VDC, 5} \text{ sec. between terminal 1 and 2} \\ \bullet \text{ Insulation resistance: more than } 500\text{M}\Omega \text{ (}100\text{VDC, one minute)}$





DC Line Filters VOL.12

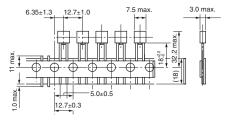


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Tape and Reel Dimensions

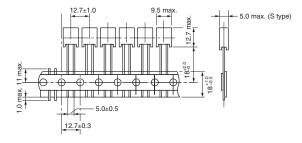
SBT Series

Tape and Reel Dimensions



SNT Series

Tape and Reel Dimensions



DC Line Filters VOL.12



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SBS9080 Series

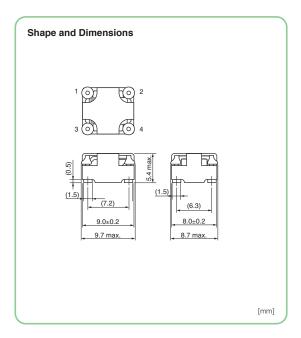
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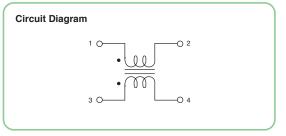


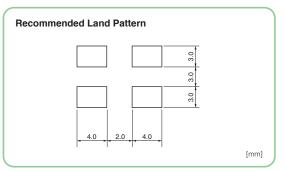
• Tape and Reel Dimensions (see page 36) • Precautions (see page 35)

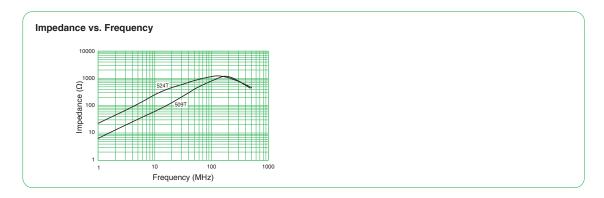
| Model | Rated voltage DC (V) | Rated current DC (A) | Inductance (at 100KHz) (µH) min. | DC resistance $(m\Omega/line)$ max. | Operating temperature range (°C) |
|--------------|-------------------------|-------------------------|--|-------------------------------------|--|
| SBS9080-509T | 50 | 5.0 | 0.9 | 15 | -25 to +50 |
| SBS9080-524T | 50 | 5.0 | 2.4 | 15 | -25 to +50 |

Withstanding voltage: 125V DC for one minute between lines
 Insulation resistance: More than 10MΩ (100V DC, between lines)









DC Line Filters VOL.12



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SBP Series

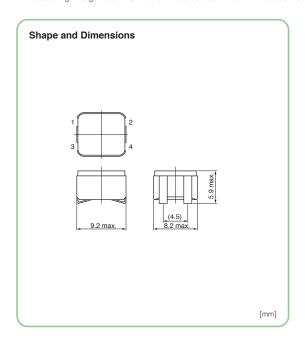
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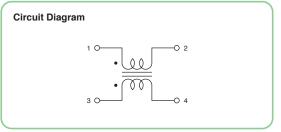


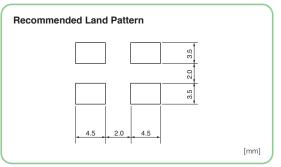
• Tape and Reel Dimensions (see page 36) • Precautions (see page35)

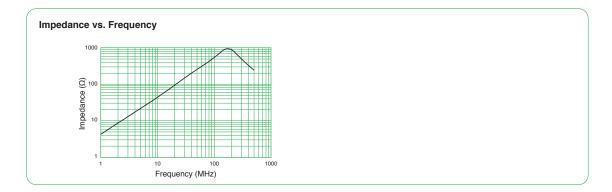
| Model | Rated voltage DC (V) | Rated current DC (A) | Impedance (at 100MHz) (Ω) min. | DC resistance $(m\Omega/line)$ max. | Operating temperature range (°C) |
|-----------|-------------------------|-------------------------|--------------------------------------|-------------------------------------|--|
| SBP-5001T | 50 | 5.0 | 500 | 7 | -25 to +70 |

Withstanding voltage: 200V DC for one minute between lines
 Insulation resistance: More than 10MΩ (100V DC, between lines)









DC Line Filters VOL.12



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DCM Series

[RoHS Compliant]



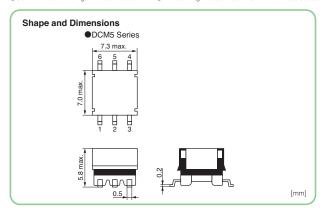
• Tape and Reel Dimensions (see page 36) • Precautions (see page 35)

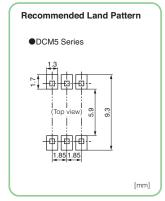
| Model | Rated voltage (V) | Rated current (A) | L (µH) min | Rdc (mΩ) max | Туре |
|---------|-------------------|-------------------|---------------|-----------------|------|
| DCM5-01 | 50 | 0.2 | 2540 | 3180 | EE5 |
| DCM5-02 | 50 | 0.5 | 520 | 510 | EE5 |
| DCM5-03 | 50 | 1.0 | 210 | 180 | EE5 |
| DCM5-04 | 50 | 2.0 | 30 | 30 | EE5 |

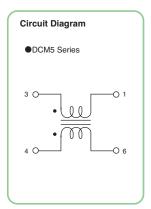
●Inductance measurement condition: f = 10KHZ 0.1V ※●Insulation resistance: more than 100MQ (250V DC, 1min, between lines) ●Operating temperature range(*C): -20 to 110 (includes the selftemp.rise)

Look: By number-of-turns adjustment, to products other than the above-mentioned characteristic is also possible, please consult.

●Common mode winding with section bobbin. ※●Withstanding voltase : 250V DC for one minute between lines.





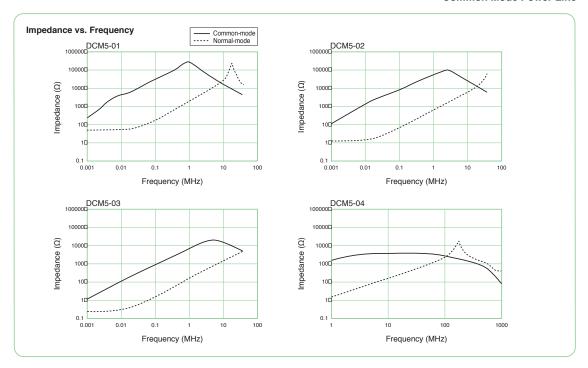


DC Line Filters VOL.12



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Common Mode Power Line



DC Line Filters VOL.12



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EMC Chip Filters M-500CT/M-600T Series

[RoHS Compliant]



• Tape and Reel Dimensions (see page 36-38) • Precautions (see page 35)

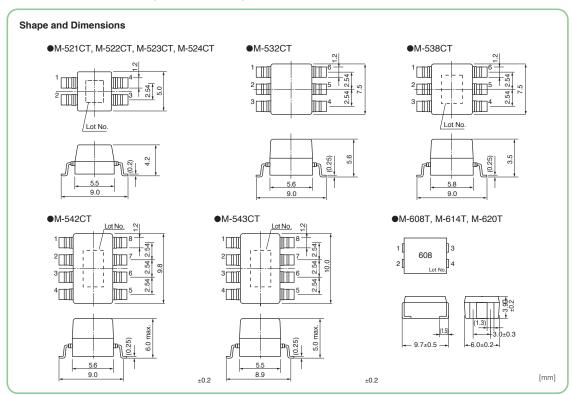
M-500CT Series

| Model | Rated voltage DC (V) | Rated current DC (A) | Impedance (Ω) min. | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) |
|---------|-------------------------|-------------------------|---------------------------|--------------------------------|--|
| M-521CT | 50 | 1.0 | 700 (at 10 MHz) | 100 | -25 to +85 |
| M-522CT | 50 | 1.0 | 200 (at 20 MHz) | 100 | -25 to +85 |
| M-523CT | 50 | 1.5 | 200 (at 20 MHz) | 65 | -25 to +85 |
| M-524CT | 80 | 0.5 | 700 (at 10 MHz) | 100 | -25 to +85 |
| M-532CT | 50 | 0.5 | 450 (at 100 MHz) | 90 | -25 to +85 |
| M-538CT | 50 | 0.1 | 800 (at 100 MHz) | 220 | -25 to +70 |
| M-542CT | 50 | 0.5 | 200 (at 10 MHz) | 120 | -20 to +75 |
| M-543CT | 50 | 1.0 | 700 (at 10 MHz) | 100 | -25 to +85 |

M-600T Series

| Model | Rated voltage DC (V) | Rated current DC (A) | Impedance (Ω) min. | DC resistance $(m\Omega)$ max. | Operating temperature range (°C) |
|--------|-------------------------|-------------------------|---------------------------|--------------------------------|--|
| M-608T | 50 | 0.1 | 300 (at 100 MHz) | 80 | -20 to +80 |
| M-614T | 50 | 0.1 | 1000 (at 50 MHz) | 120 | -20 to +80 |
| M-620T | 50 | 0.1 | 1000 (at 30 MHz) | 160 | -20 to +80 |

• Insulation resistance: more than $10M\Omega$ (100V DC, between lines)

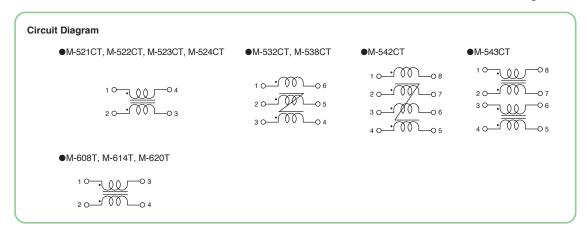


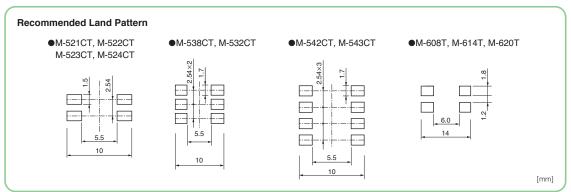
DC Line Filters VOL.12

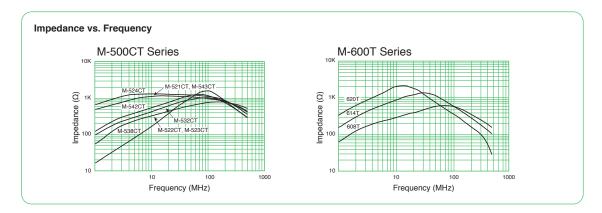


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Common Mode Signal Line







DC Line Filters VOL.12



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Precautions

Shelf Life

Use within 6 months. If the product is used after a storage period of 6 months or longer, confirm its solderability before use.

Recommended Soldering Conditions

· Soldering irons:

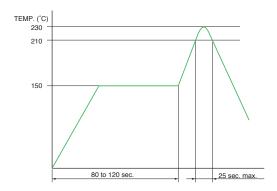
Tip temperature: 350±5°C

Duration of heat: approx. 4 seconds

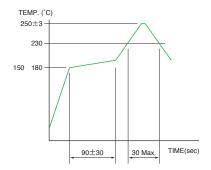
- · Flow soldering: not suitable
- Reflow soldering: Refer to the following temperature profile.
- Standard thickness of cream Solder = 150 μ m \sim 200 μ m.

Recommended reflow profile shown below are data obtained from reflow equipment used at NEC TOKIN. The Solderbility may differ greatly depending on reflow equipment type, reflow condition, land pattern area and the amount of cream Solder. Please check the Solderbility thoroughly before actual reflow operation.

Reflow Profile 1 (for SBP-5001T)



Reflow Profile 2 (for lead-free type)



DC Line Filters VOL.12

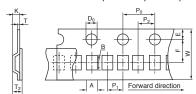


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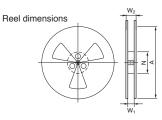
Tape and Reel Dimensions

SBS9080 (1000pcs./reel)

Dimensions of indented square-hole plastic tape



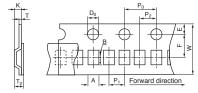
| | | | | | | | | | | | [IIIIII] |
|----------------|----------------|------|------|------|----------------|----------------|----------------|----------|----------------|-------|----------|
| A ₀ | B ₀ | W | F | Е | P ₁ | P ₂ | P ₀ | D_0 | T ₁ | T_2 | K |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | 0.6≧ | 7.2≧ | 7.0≧ |
| 9.5 | 10.3 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | 1.5 | 0.6 | 7.2 | 7.0 |



| | | | [11111] |
|-----|-----|----------------|----------------|
| A | N | W ₁ | W ₂ |
| | | ±0.5 | 25≧ |
| 330 | 100 | 17.5 | 25 |

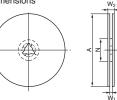
SBP-5001T (1000pcs./reel)

Dimensions of indented square-hole plastic tape



| | | | | | | | | | | | LIIIIII |
|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|-------|---------|
| Α | В | W | F | Е | P ₁ | P ₂ | P ₀ | D ₀ | T ₁ | T_2 | K |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | 0.4≧ | 5.7≧ | 5.8≧ |
| 9.0 | 9.0 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | 1.5 | 0.4 | 5.7 | 5.8 |
| | | | | | | | | | | | |

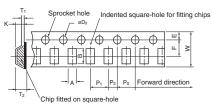
Reel dimensions



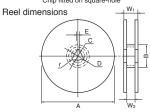
| | | | [mm] |
|-----|----|----------------|----------------|
| А | N | W ₁ | W ₂ |
| | | +6, -0 | 25≧ |
| 330 | 79 | 16 | 25 |

M-521CT/M-522CT/M-523CT/M-524CT (conforms to EIAJ RC-1009) (1500pcs./reel)

Dimensions of indented square-hole plastic tape



| | | | | | | | | | | | lmmi |
|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| Α | В | W | F | Е | P ₁ | P ₂ | P ₀ | D ₀ | T ₁ | T ₂ | K |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | max. | max. | max. |
| 5.3 | 9.5 | 16 | 7.5 | 1.75 | 8.0 | 2.0 | 4.0 | 1.5 | 0.6 | 6.5 | 6.4 |



| | | | | | | | [mm] |
|------|------|------|------|------|-----|----------------|----------------|
| A | В | С | D | E | r | W ₁ | W ₂ |
| ±3.0 | ±2.0 | ±0.2 | ±0.8 | ±0.5 | _ | max. | +6, -0 |
| 330 | 79 | 13 | 21 | 2.0 | 1.0 | 25 | 16 |

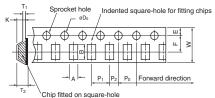
DC Line Filters VOL.12



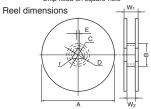
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M-532CT (conforms to EIAJ RC-1009) (1000pcs./reel)

Dimensions of indented square-hole plastic tape



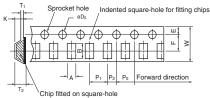
| | | | | | | | | | | | [IIIIII] |
|------|------|------|------|------|----------------|----------------|----------------|----------|----------------|-------|----------|
| Α | В | W | F | Е | P ₁ | P ₂ | P ₀ | D_0 | T ₁ | T_2 | K |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | max. | max. | max. |
| 7.9 | 9.4 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.5 | 0.6 | 6.9 | 6.8 |



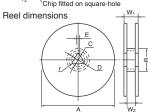
| | | | | | | | [mm] |
|------|------|------|------|------|-----|----------------|----------------|
| А | В | С | D | E | r | W ₁ | W ₂ |
| ±3.0 | ±2.0 | ±0.2 | ±0.8 | ±0.5 | _ | max. | +6, -0 |
| 330 | 80 | 13.0 | 21.0 | 2.0 | 1.0 | 25.0 | 16.0 |

M-538CT (conforms to EIAJ RC-1009) (1500pcs./reel)

Dimensions of indented square-hole plastic tape



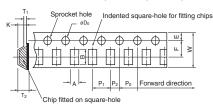
| | | | | | | | | | | | | [mm] |
|---|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| ı | Α | В | W | F | Е | P ₁ | P ₂ | P ₀ | D ₀ | T ₁ | T ₂ | K |
| | ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | max. | max. | max. |
| | 7.9 | 9.4 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.5 | 0.6 | 4.6 | 4.5 |
| | | | | | | | | | | | | |



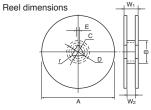
| | | | | | | | [mm] |
|------|------|------|------|------|-----|----------------|----------------|
| Α | В | С | D | Е | r | W ₁ | W ₂ |
| ±3.0 | ±2.0 | ±0.2 | ±0.8 | ±0.5 | _ | max. | +6, -0 |
| 330 | 80 | 13.0 | 21.0 | 2.0 | 1.0 | 25.0 | 16.0 |

M-542CT (conforms to EIAJ RC-1009) (1000pcs./reel)

Dimensions of indented square-hole plastic tape



| | | | | | | | | | | | [mm] |
|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| Α | В | W | F | Е | P ₁ | P ₂ | P ₀ | D ₀ | T ₁ | T ₂ | K |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | max. | max. | max. |
| 9.5 | 10.5 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.5 | 0.6 | 7.2 | 7.0 |



| | | | | | | | [mm] |
|------|------|------|------|------|-----|----------------|----------------|
| А | В | С | D | E | r | W ₁ | W ₂ |
| ±3.0 | ±2.0 | ±0.2 | ±0.8 | ±0.5 | _ | max. | +6, -0 |
| 330 | 100 | 13.0 | 21.0 | 2.0 | 1.0 | 25.0 | 17.5±0.5 |

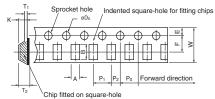
DC Line Filters VOL.12



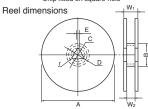
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M-608T/M-614T/M-620T (conforms to EIAJ RC-1009) (1500pcs./reel)

Dimensions of indented square-hole plastic tape



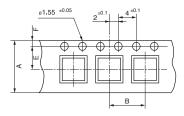
| | | | | | | | | | | | [IIIIII] |
|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|-------|----------|
| Α | В | W | F | Е | P ₁ | P ₂ | P ₀ | D ₀ | T ₁ | T_2 | K |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, -0 | max. | max. | max. |
| 6.4 | 10.2 | 16.0 | 7.5 | 1.75 | 8.0 | 2.0 | 4.0 | 1.5 | 0.6 | 6.5 | 6.4 |
| | | | | | | | | | | | |



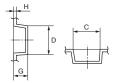
| | | | | | | | [mm] |
|------|------|------|------|------|-----|----------------|----------------|
| А | В | С | D | Е | r | W ₁ | W ₂ |
| ±3.0 | ±2.0 | ±0.2 | ±0.8 | ±0.5 | _ | max. | +6, -0 |
| 330 | 79 | 13.0 | 21.0 | 2.0 | 1.0 | 25.0 | 16.0 |

DCM5 Series(2000pcs./reel)

Dimensions of indented square-hole plastic tape



| | | | | | | | | [mm] |
|-------------|--------|---|-----|-----|-----|------|-----|-----------|
| Model | А | В | С | D | Е | F | G | Н |
| DCM5 Series | 16±0.3 | 8 | 6.3 | 8.3 | 7.5 | 1.75 | 5.2 | 0.38±0.05 |



DC Line Filters VOL.12



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Precautions



- The names of the products and the specifications in this catalog are subject to change without notice for the sake of improvement. The manufacturer also reserves the right to discontinue any of these products. At the time of delivery, please ask for specifications sheets to check the contents in order to use the products properly and safely.
- Descriptions in this catalog regarding product characteristics and quality are based solely on discrete components. When using these components, be sure to check the specifications with the component in question mounted on the products.
- The manufacturer's warranty will not cover any disadvantage or damage caused by improper use of the products that deviates from the characteristics, specifications, or conditions for use described in this catalog.
- The products in this catalog are intended for use in ordinary electronic products. If any of these products are to be used in special applications requiring extremely high reliability, such as in aviation equipment and nuclear power controllers where product defects might pose a safety risk, please consult your NEC TOKIN sales representatives.
- Though the manufacturer has taken all possible precautions to ensure the quality and reliability of its products, improper use of products may result in bodily injury, fire, or similar accident. If you have any questions regarding the use of the products in question, please consult your NEC TOKIN sales representatives.
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