

T-617
Jan. 29, 1999


Announcement of discontinued production

We would like to inform you of the following two categories of products.



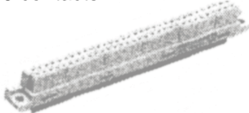
1. Discontinued products
2. Products that are planned for discontinuance

1. Discontinued products

• Relays

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|--|--------------|---------------------------|----------------------|--|--|
| DN relays  | DN2... | None | — | Less needs caused by decreasing demand (already informed 1995 Dec. (A-News T-477)) | Discontinued from Nov.1998 (Re-confirmation) |

• Switches/Built-in Sensors/Connectors






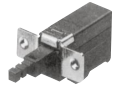
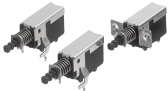


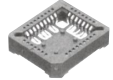
| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|--|------------------------|------------------------------|----------------------|--|----------------------------|
| Narrow-pitch connectors P5  (Floating type is exception) | AXN6-.545. | Narrow-pitch connectors P5KS | AXK5S... | Substituted product, P5KS is released which has superior shock resistance. | Discontinued from Nov.1998 |
| Narrow-pitch connectors P8 stacking height 6.5mm  (Socket and header have same outline) | AXN150431. | None | — | Please consult us for substituted products. | Discontinued from Nov.1998 |
| DIN connectors B type 16 contacts  | AXD116... AXD216... | None | — | Decreasing demand | Discontinued from Nov.1998 |

Matsushita Electric Works, Ltd.

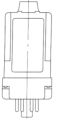



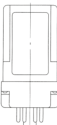













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












• Switches/Sensors/Connectors

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|---|----------------------|--|----------------------|---|----------------------------|
| QFP sockets 64 contacts HITACHI IC compatible type  | AXS4643H19K | QFP sockets 64 contacts standard type | AXS4643R19K | Standard type can be substituted. | Discontinued from Nov.1998 |
| Connectors for PC card  | AXP1... | None | — | Decreasing demand | Discontinued from Nov.1998 |
| Sockets for PC board relays DA31 socket (for DA relays)  | AXS10DA31 | None | — | Discontinued production of DA relays. | Discontinued from Nov.1998 |
| FD switches  | AB8... | New FD switches  | ABU8... | Substituted products have been released. | Discontinued from Nov.1998 |
| Power push switches P5 switches  | AAP5... | PZ switches  | AAP5Z... | Substituted products have been released. | Discontinued from Nov.1998 |
| SM-H shock sensors  | ADS1... | None | — | Technical difficulty for production and rare demand | Discontinued from Aug.1998 |
| IC socket carrier type  | AXS32839 AXS33239 | IC socket round pin type or μ IC socket | AXS10... AXS20... | Decreasing demand | Discontinued from Nov.1998 |
| IC sockets for PLCC  | AXS8... | None | — | Decreasing demand | Discontinued from Nov.1998 |













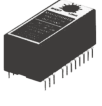
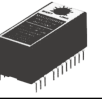




• Timers

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Completion schedule |
|---|------------------|--|----------------------|---|---------------------|
| CDV Time relays (Round plug-in type)  | AD41×4 AD41×5 | CDV Time relays (Square plug-in type)  | AD42×7 AD42×8 | <ul style="list-style-type: none"> • Due to the shape of the terminal pins having been changed from round plug-in type to square plug-in type. • Use terminal block AW5842. | Stopped |
| CDV Time relays  | AD41×7 AD41×8 | CDV Time relays  | AD42×7 AD42×8 | <ul style="list-style-type: none"> • To improve internal circuit performance. | Stopped |
| CDP Time relays (Round plug-in type)  | AD71×4 AD71×5 | CDP Time relays (Square plug-in type)  | AD72×7 AD72×8 | <ul style="list-style-type: none"> • Due to the shape of the terminal pins having been changed from round plug-in type to square plug-in type. • Use terminal block AW5842. | Stopped |
| CDP Time relays  | AD71×7 AD71×8 | CDP Time relays  | AD72×7 AD72×8 | <ul style="list-style-type: none"> • To improve internal circuit performance. | Stopped |
| MHP High power Timers (MHP-NS) (Exposed type Square plug-in lateral type)  | MHP-NS | MHP High power Timer (MHP-NS) (Exposed type Round plug-in standing type)  | MHP-N | <ul style="list-style-type: none"> • To facilitate DIN rail installation and continuous installation. • Use terminal block AT7803. | Mar. 1992 |
| MHP-M High power Timers (MHP-M) (Exposed type Round plug-in lateral type)  | MHP-M | MHP-M High power Timer (MHP-M) (Exposed type Square plug-in lateral type)  | MHP-NM | <ul style="list-style-type: none"> • To facilitate DIN rail installation and continuous installation. • Use terminal block AT7803. | Mar. 1992 |
| MHP High power Timers (MHP-YC) (Buried type with installation frame)  | MHP-YC | MHP High power Timers MHP(-N) (Exposed type with no installation frame)  | MHP-N | <ul style="list-style-type: none"> • To allow combined use as both buried and exposed types. • When using as buried type, use installation frame AT7821. | Mar. 1992 |
| MHP High power Timers (MHP-YM) (Buried type with installation frame)  | MHP-YM | MHP-M High power Timers (MHP-NM) (Exposed type with no installation frame)  | MHP-NM | <ul style="list-style-type: none"> • To allow combined use as both buried and exposed types. • When using as buried type, use installation frame AT7821. | Mar. 1992 |
| CHP High power Timers (CHP-NS) (Exposed type Square plug-in lateral type)  | CHP-NS | CHP High power Timers (CHP-N) (Exposed type Round plug-in standing type)  | CHP-N | <ul style="list-style-type: none"> • To facilitate DIN rail installation and continuous installation. • Use terminal block AT7803. | Mar. 1992 |

Note: In the case of models for which production has been stopped and recommended replacement models, specifications may not completely match, so use after careful confirmation.







| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Completion schedule |
|--|--------------|---|----------------------|--|---------------------|
| CHP High power Timers (CHP-YC) (Buried type with installation frame)  | CHP-YC | CHP High power Timers (CHP-N) (Exposed type with no installation frame)  | CHP-N | <ul style="list-style-type: none"> To allow combined use as both buried and exposed types. When using as buried type, use installation frame AT7821. | Mar. 1992 |
| CHP-F High power Timers (CHP-NSF) (Exposed type Square plug-in lateral type)  | CHP-NSF | CHP-F High power Timers (CHP-NF) (Exposed type Round plug-in standing type)  | CHP-NF | <ul style="list-style-type: none"> To facilitate DIN rail installation and continuous installation. Use terminal block AT7803. | Mar. 1992 |
| CHP High power Timers (CHP-YCF) (Buried type with installation frame)  | CHP-YCF | CHP High power Timers (CHP-NF) (Exposed type with no installation frame)  | CHP-NF | <ul style="list-style-type: none"> To allow combined use as both buried and exposed types. When using as buried type, use installation frame AT7821. | Mar. 1992 |
| PM48A Multi-range timers  | PM48A | PM4H-A Multi-range timers  | PM4H-A | <ul style="list-style-type: none"> Due to the announcement of the PM4H series to meet user needs. | Jun. 1996 |
| PM48 Multi-range timers  | PM48 | PM4H-S Multi-range timers  | PM4H-S | <ul style="list-style-type: none"> Due to the announcement of the PM4H series to meet user needs. | Jun. 1996 |
| PM48M Multi-range timers  | PM48M | PM4H-M Multi-range timers  | PM4H-M | <ul style="list-style-type: none"> Due to the announcement of the PM4H series to meet user needs. | Jun. 1996 |
| PM48F OFFdelay timers  | PM48F | PM4H-F timers  | PM4H-F | <ul style="list-style-type: none"> Due to the announcement of the PM4H series to meet user needs. | Jun. 1996 |
| PM48SD Star-delta timers  | PM48SD | PM4H-SD Star-delta timers  | PM4H-SD | <ul style="list-style-type: none"> Due to the announcement of the PM4H series to meet user needs. | Jun. 1996 |
| PM48W Twin timers  | PM48W | PM4H-W Twin timers  | PM4H-W | <ul style="list-style-type: none"> Due to the announcement of the PM4H series to meet user needs. | Jun. 1996 |
| CDX time relays  | CDX | S1DX timers  | S1DX | <ul style="list-style-type: none"> Because, since the market release of the S1DX timer, new orders and new item names are shifting to the S1DX timer. | Jun. 1996 |
| PDX timers  | PDX | S1DX timers  | S1DX | <ul style="list-style-type: none"> Because, since the market release of the S1DX timer, new orders and new item names are shifting to the S1DX timer. | Jun. 1996 |

Note: In the case of models for which production has been stopped and recommended replacement models, specifications may not completely match, so use after careful confirmation.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Completion schedule |
|--|--|---|----------------------|---|---------------------|
| VHP Digital high power timers  | VHP | LT4H Digital timers  | LT4H | <ul style="list-style-type: none"> Because, since over the long period since the start of sales, usage by users has reduced significantly. | May 1995 |
| C-HC time units  | C-HC | S1DX timers  | S1DX | <ul style="list-style-type: none"> Because, since over the long period since the start of sales, usage by users has reduced significantly. | May 1995 |
| LT48 digital timers (8-pin)  | LT48 | LT4H digital timers (8-pin)  | LT4H | <ul style="list-style-type: none"> Changeover is possible due to the release of the LT4H digital timer in response to market needs. Production of the micro computer suspended. | Dec. 1997 |
| LT48W digital timers (8-pin)  | LT48W | LT4H-W digital timers (8-pin)  | LT4H-W | <ul style="list-style-type: none"> Changeover is possible due to the release of the LT4H digital timer in response to market needs. Production of the micro computer suspended. | Dec. 1997 |
| QM48S digital timers (8-pin)  | QM48S | LT4H digital timers (8-pin)  | LT4H | <ul style="list-style-type: none"> Changeover is possible due to the release of the LT4H digital timer in response to market needs. Production of the micro computer suspended. | Dec. 1997 |
| QM72S digital timers (Screw type)  | QM72S | LT4H digital timers (Screw type)  | LT4H | <ul style="list-style-type: none"> Changeover is possible due to the release of the LT4H digital timer in response to market needs. Production of the micro computer suspended. | Dec. 1997 |
| PNS time units  | AQ5xxx (Three types with operating voltages: DC5V, DC6V, and DC5V to DC6V.) | When placing a new order, comply with the operating voltage range specification of 95% to 110%. Append a "V" at the end of the part number in the order.  | AQ5xxxV | <ul style="list-style-type: none"> In the IC (5VDC, 6VDC, and 5VDC to 6VDC), and within the operating voltage range (5VDC: 90% to 110%V, 6VDC: 85% to 110%V), yield is unstable. | Oct. 1997 |
| DIN rail socket (8-pin)  | ATA4821 | DIN rail socket (8-pin)  | ATC18003 | <ul style="list-style-type: none"> Change from spring stop method to hook stop method to facilitate installation and removal. | Aug. 1994 |
| DIN rail socket (11-pin)  | ATA4822 | DIN rail socket (11-pin)  | ATC18004 | <ul style="list-style-type: none"> Change from spring stop method to hook stop method to facilitate installation and removal. | Aug. 1994 |











Note: In the case of models for which production has been stopped and recommended replacement models, specifications may not completely match, so use after careful confirmation.

• Hour Meters

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Completion period |
|---|----------------|---|----------------------|---|-------------------|
| TH11-12 Hour Meters (without reset function)  | TH11× TH12× | TH14 Hour Meters (common for 50/60 Hz power frequency)  | TH141S TH142S | <ul style="list-style-type: none"> • Due to change of specification from round-type motor to square-type motor (for improved performance). • Trunk Round type (Mounting hole φ45) ↓ Square type (Mounting hole 45 (square)) | Stopped |
| TH21-22 Hour Meters (Separate 50/60Hz models)  | TH21× TH22× | TH24 Hour Meters Combine 50/60Hz (with reset function common for 50/60 Hz power frequency)  | TH241S TH242S | <ul style="list-style-type: none"> • Due to change of specification from round-type motor to square-type motor (for improved performance). • Trunk Round type (Mounting hole φ45) ↓ Square type (Mounting hole 45 (square)) | Stopped |
| TH30 Hour Meters  | TH30 | LT4H Digital timers  | LT4H | <ul style="list-style-type: none"> • Because, since over the long period since the start of sales, usage by users has reduced significantly. | Apr. 1996 |

Note: In the case of models for which production has been stopped and recommended replacement models, specifications may not completely match, so use after careful confirmation.

• Counters

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Completion period |
|---|--------------|---|----------------------|---|-------------------|
| PMC counters  | AK5 | LC4H Electronic counters  | LC4H | <ul style="list-style-type: none"> • Because, since over the long period since the start of sales, usage by users has reduced significantly. | Apr. 1996 |
| LC48 Electronic counters (Relay type: 11-pin) (Tr type: 8-pin)  | LC48 | LC4H Electronic counters (Relay type: 11-pin) (Tr type: 8-pin)  | LC4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. | Apr. 1996 |
| LC48W Electronic counters (11-pin)  | LC48W | LC4H-W Electronic counters (11-pin)  | LC4H-W | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
| EM48S Electronic counters (8-pin)  | EM48S | LC4H Electronic counters (8-pin)  | LC4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
| EM72S Electronic counters (Screw type)  | EM72S | LC4H Electronic counters (Screw type)  | LC4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |

Note: In the case of models for which production has been stopped and recommended replacement models, specifications may not completely match, so use after careful confirmation.

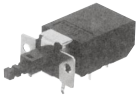



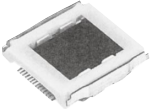
2. Products to be discontinued

• Relays



Your order-ins will be processed until 3 months before discontinued dates.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|---|-------------------------------|---|-------------------------------|--|--------------------|
| JE-X relays Dust cover type  | JE1aXN-DC.. JE1XN-DC.. | JE-X relays Flux resistant type | JE1aXN-DC...H JE1XN-DC...H | Unified to Flux-Resistant type | Nov. 1999 |
| NT relays AC type  | NT1-AC..V | NC relay slim type HC relays | NC2D-JP... HC...HP... | Less needs caused by decreasing demand | Nov. 1999 |
| JH relays AC type & Terminal screw type  | JH...AC..V JH..as... | HE relays (1 Form A, 2 Form A single only) | HE... | Less needs caused by decreasing demand | Nov. 1999 |
| NC relays 6V AC type  | NC....AC6V | HC relays | HC... | Less needs caused by decreasing demand | Nov. 1999 |
| HP relays solder terminal socket for round hole punching  | HP..SRR | HP relays solder terminal socket for rectangular hold boring | HP..SRS | Less needs caused by decreasing demand | Nov. 1999 |
| HG relays socket (without UL/CSA)  | HG..SS | HG relays socket (with UL/CSA) | No change in part numbers | Unified to UL/CSA approved type | Nov. 1999 |
| JC relays socket (without UL/CSA)  | JC...S | JC relays (with UL/CSA) | No change in part numbers | Unified to UL/CSA approved type | Nov. 1999 |
| NT relays socket (without UL/CSA)  | NT..S | NT relays (with UL/CSA) | No change in part numbers | Unified to UL/CSA approved type | Nov. 1999 |
| HC relays stepping type  | HCS... | None | — | Less needs caused by decreasing demand | Nov. 2001 |
| HP relays (for Aromat)  | HP31... HP32... HP33... | None | — | Less needs caused by decreasing demand | Nov. 1999 |

• Switches/Built-in Sensors/Connectors



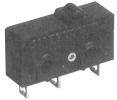









| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|---|--------------|--|----------------------|--|--------------------|
| P8 switches  | AAP8... | PY switches  | AAP8Y... | Substituted products have been released *Please consult us if contact gap min. 3mm type is necessary. | May 1999 |
| Motion-detecting sensors  | AMV... | MA Motion sensors  | AMB... | Substituted products which have superior specifications and line-up are released. | Nov. 1999 |
| IC sockets for TSOP  | AXS7... | None | — | Decreasing demand and small quantity sales for this 18 months | Nov. 1999 |

• Sensors/Barcode reader

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|--|--------------|---------------------------|----------------------|--------------------|--------------------|
| AVB Barcode reader  | AVB... | None | — | Decreasing demand | Nov. 1999 |
| US100 sensors  | ANU... | None | — | Decreasing demand | Nov. 1999 |

3. Products that are planned for discontinuance

For new customers, please advise them following recommended products.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|--|--|--|---|--|--------------------|
| GV switches  | AH4... | QV switches  | AM5... | QV switches cover all the types of GV switches and they have superior characteristics | Undecided |
| QS switches  | AH3A... | FS switches  FS-T switches  PS switches  | AV3... AVM3... AVT3... AVL3... AVM3...P | Recommended products cover all the types of QS switches and they have superior characteristics | Undecided |
| FJ switches (mounting hole 1.2mm type)  | AH11... (Solder terminal) AH12... (PC board terminal) | FJ switches (mounting hole 2.0mm type)  | AH14... AH16... | Decreasing demand | Undecided |
| J3 toggle switches  | AJ3... | T-15 series toggle switches  T-10 series toggle switches  J4 toggle switches  | WD1... WD1-3... AJ4... | Recommended products cover J3 toggle switches on characteristics. | Undecided |