

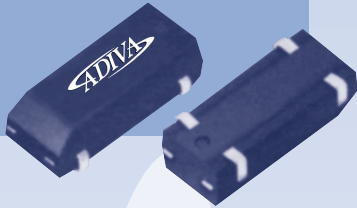
Quartz

Surface Mount

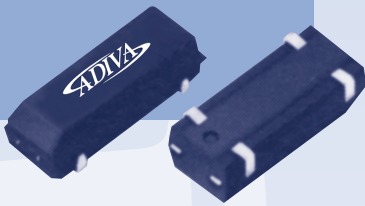
ADXSM-490 Series (491, 492)



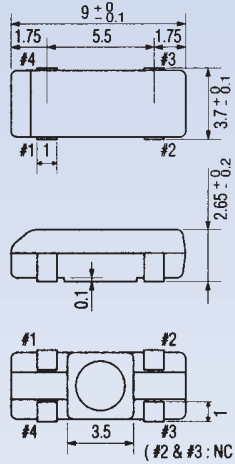
ADXSM-491



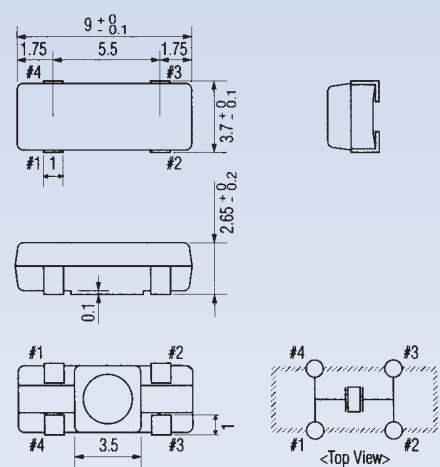
ADXSM-492



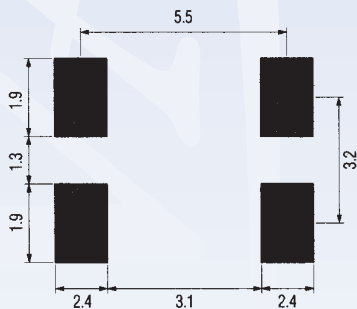
ADXSM-491 (unit: mm)



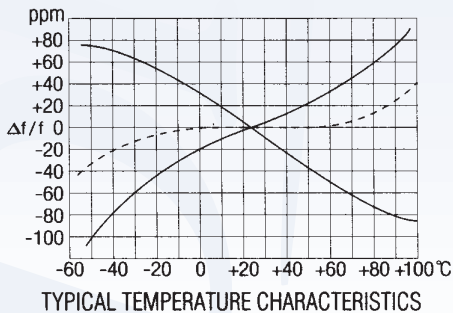
ADXSM-492 (unit: mm)



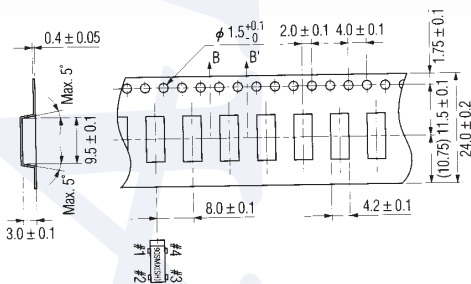
SOLDERING PATTERN



AT-CUT



TAPE SPECIFICATIONS



2000pcs. per reel (330mm dia.)

PACKAGE DATA

| Item / Package | ADXSM-491 | ADXSM-492 |
|------------------|----------------------------------|----------------------------------|
| OUTER PACKAGE | Plastic | Plastic |
| SEALING | Press-fit (2 x 6 mm built-in) | Press-fit (2 x 6 mm built-in) |
| TERMINAL PLATING | Solder | Solder |

STANDARD SPECIFICATIONS

| Package Type | | ADXSM-491 | ADXSM-492 |
|--------------------------------|-------|------------------------------------|------------------------------------|
| Frequency Range | F | 12.000 MHz to 40.000 MHz | 12.000 MHz to 40.000 MHz |
| Calibration Tolerance | | ±50 ppm at +25°C ±3°C | ±50 ppm at +25°C ±3°C |
| Temperature Stability at +25°C | | ±50 ppm over -20°C to +70°C | ±50 ppm over -20°C to +70°C |
| Load Capacitance | CL | 16 pF | 16 pF |
| Shunt Capacitance | Co | 5 pF max. | 5 pF max. |
| Drive Level | P | 100 μW max. | 100 μW max. |
| Aging | # f/F | ±5 ppm max. at +25°C ±3°C per year | ±5 ppm max. at +25°C ±3°C per year |
| Cut | | AT-Cut | AT-Cut |
| Reflow Soldering Condition | | 10 seconds max. at +235°C ±5°C | 10 seconds max. at +235°C ±5°C |

Quartz Part Numbering Guide

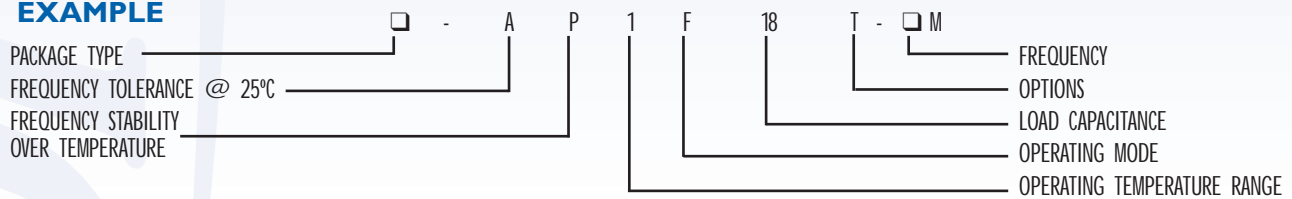
Surface Mount

ADXSM, ADX49SM, ADX49SSM1/SSM2, ADX49SMP/SMP1 Series



| | | | | |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Package Type | ADXSM-351 pg10 ADXSM-364 pg11 ADXSM-365 pg12 ADXSM-463 pg16 ADXSM-481 pg17 ADXSM-491 pg20 ADXSM-492 pg20 | ADXSM-571 pg21 ADXSM-572 pg22 ADXSM-581 pg23 ADXSM-5111A pg24 ADXSM-6122A pg24 ADXSM-6121A pg25 ADXSM-5122A pg25 | ADXSM-5134AZ pg26 ADXSM-5136AZ pg26 ADXSM-5135AZ pg27 ADXSM-5137AZ pg27 ADXSM-5138AZ pg28 ADXSM-5121B pg29 ADXSM-5122B pg29 | ADX49SM pg30 ADX49SSM pg30 ADX49SSM1 pg31 ADX49SSM2 pg31 ADX49SMP pg32 ADX49SMP1 pg32 |
| Frequency Tolerance @ 25°C | ±100ppm A ±50ppm B ±45ppm C | ±40ppm D ±35ppm E ±30ppm F | ±25ppm G ±20ppm H ±15ppm I | ±10ppm J ±5ppm K |
| Frequency Stability Over Temperature | ±100 ppm P ±50 ppm Q ±45 ppm R ±40 ppm S | ±35 ppm T ±30 ppm U ±25 ppm V ±20 ppm W | ±15 ppm X ±10 ppm Y ±7.5 ppm YY ±5 ppm Z | ±4 ppm ZZ ±3 ppm ZY |
| Operating Temperature Range | 0°C to +70°C 1 -10°C to +60°C 2 -20°C to +70°C 3 -40°C to +75°C 4 | -40°C to +85°C 5 -40°C to +90°C 6 0°C to +55°C 7 -40°C to +125°C 8 | 0°C to +50°C 9 -10°C to +50°C 10 -10°C to +70°C 11 -30°C to +75°C 12 | -30°C to +80°C 13 -350°C to +80°C 14 |
| Operating Mode | Fundamental F 3rd Overtone 3 | 5th Overtone 5 7th Overtone 7 | 9th Overtone 9 | |
| Load Capacitance | 6 pF 6 10 pF 10 12 pF 12 | 15 pF 15 16 pF 16 18 pF 18 | 20 pF 20 22 pF 22 30 pF 30 | 32 pF 32 50 pF 50 Series S |
| Options | Bulk Blank | Insulator Tab I | Tape & Reel T | |
| Frequency | MHz M | KHz K | | |

EXAMPLE



| | | | |
|-----------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------|
| Package Type | ADXSM-281 pg9 ADXSM-371 pg13 ADXSM-391 pg14 | ADXSM-411 pg15 ADXSM-412 pg15 ADXSM-481A pg18 | ADXSM-481B pg19 ADXSM-482B pg19 |
| Frequency Tolerance @ 25°C | ±100ppm A ±50ppm B ±45ppm C ±40ppm D | ±35ppm E ±30ppm F ±25ppm G ±20ppm H | ±15ppm I ±10ppm J ±5ppm K |
| Load Capacitance | 6 pF 6 | 7 pF 7 | 12.5 pF 12.5 |
| Options | Bulk Blank | Insulator Tab I | Tape & Reel T |
| Frequency | MHz M | KHz K | |

EXAMPLE

