



AFP7FCA21 | FP7 Add-on cassettes (function cassettes)



※Photo may vary from actual product.

Product Number	AFP7FCA21
Part Number	AFP7FCA21
Product	FP7 Add-on cassettes (function cassettes)
Product name	FP7 Add-on cassettes (function cassettes)

Spec Detail

As of May 30, 2021

Specifications and design of the products are subject to change without notice for the product improvement.

Item		Specifications
Product Number		AFP7FCA21
Part Number		AFP7FCA21
[[INPUT SPECIFICATIONS]]Number of input points		2 channels (non-insulated between channels)
[[INPUT SPECIFICATIONS]]Input range:Voltage		0 to 10 V / 0 to 5 V, Switch setting (individual settings possible)
[[INPUT SPECIFICATIONS]]Input range:Current		0 to 20 mA
[[INPUT SPECIFICATIONS]]Digital conversion value		K0 to K4000
[[INPUT SPECIFICATIONS]]Resolution		1/4000 (12 bits)
[[INPUT SPECIFICATIONS]]Conversion speed		1 ms / channel
[[INPUT SPECIFICATIONS]]Overall precision		plus or minus 1 % F.S. or less (0 to +55 degrees +32 to +131 degrees Fahrenheit)
[[INPUT SPECIFICATIONS]]Input impedance:Voltage		1 MOhm
[[INPUT SPECIFICATIONS]]Input impedance:Current		250 Ohm
[[INPUT SPECIFICATIONS]]Absolute maximum input:Voltage		- 0.5 V, +15 V
[[INPUT SPECIFICATIONS]]Absolute maximum input:Current		30 mA
[[INPUT SPECIFICATIONS]]Insulation method		- Between analog input terminal and internal digital circuit: transformer insulation, isolation IC insulation - Between analog input terminal and analog output terminal: transformer insulation, isolation IC insulation
[[INPUT SPECIFICATIONS]]External connection method		Connector type terminal block
[[OUTPUT SPECIFICATIONS]]Number of output points		1 channel
[[OUTPUT SPECIFICATIONS]]Output range:Voltage		0 to 10 V / 0 to 5 V, Switch setting
[[OUTPUT SPECIFICATIONS]]Output		0 to 20 mA

range:Current

[[OUTPUT SPECIFICATIONS]]Digital conversion value	K0 to K4000
[[OUTPUT SPECIFICATIONS]]Resolution	1/4000 (12 bits)
[[OUTPUT SPECIFICATIONS]]Conversion speed	1 ms / channel
[[OUTPUT SPECIFICATIONS]]Overall precision	plus or minus 1 % F.S. or less (0 to +55 degrees +32 to +131 degrees Fahrenheit)
[[OUTPUT SPECIFICATIONS]]Output impedance	0.5 Ohm (voltage output)
[[OUTPUT SPECIFICATIONS]]Max. output current	10 mA (voltage output)
[[OUTPUT SPECIFICATIONS]]Absolute output load resistance	600 Ohm or less (current output)
[[OUTPUT SPECIFICATIONS]]Insulation method	- Between analog input terminal and internal digital circuit: transformer insulation, isolation IC insulation - Between analog input terminal and analog output terminal: transformer insulation, isolation IC insulation
[[OUTPUT SPECIFICATIONS]]External connection method	Connector type terminal block
[[COMMON GENERAL SPECIFICATIONS]]Ambient temperature	0 to +55 °C +32 to +131 °F, Storage: -40 to +70 °C -40 to +158 °F
[[COMMON GENERAL SPECIFICATIONS]]Ambient humidity	10 to 95 % RH (at +25 °C +77 °F, no condensation), Storage: 10 to 95 % RH (at +25 °C +77 °F, no condensation)
[[COMMON GENERAL SPECIFICATIONS]]Breakdown voltage	500 V AC for 1 minute
[[COMMON GENERAL SPECIFICATIONS]]Insulation resistance	100 MOhm or more (at 500 V DC)
[[COMMON GENERAL SPECIFICATIONS]]Vibration resistance	5 to 8.4 Hz, single amplitude of 3.5 mm 0.138 in, 1 sweep/min. (IEC 61131-2) ; 8.4 to 150 Hz, constant acceleration of 9.8 m/s ² , 1 sweep/min. (IEC 61131-2), 10 times each in X, Y, and Z directions
[[COMMON GENERAL SPECIFICATIONS]]Shock resistance	147 m/s ² or more , 3 times each in X, Y, and Z directions (IEC61131-2)
[[COMMON GENERAL SPECIFICATIONS]]Noise immunity	1,000 V [p-p] with pulse width 50 ns and 1 micro s (using a noise simulator)
[[COMMON GENERAL SPECIFICATIONS]]Operating condition	Free from corrosive gasses and excessive dust
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Rated voltage range	-
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Current consumption	75 mA or less (Note) This value is the increase in CPU current consumption.
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Net weight	25 g approx. (with terminal block)