

Specification of the MACC150 Premium

Accuracy makes the difference



Main characteristics

Rated current (I_{PN})	0 - 150 A bipolar
Permissible overcurrent (10 s)	160 % of I_{PN}
Permissible overcurrent (0.1 s)	500 % of I_{PN}
Output transfer ratio	150mA at I_{PN}
Output load	0 ... 50 Ω (burden resistor at I_{PN})
Output max.	750 mA
Small signal bandwidth (5% of I_{PN})	500 kHz (-3 dB)
Output noise (related to I_{PN})	
BW= 10 kHz	< 60 ppm _{RMS} (300 ppm _{pp})
Output offset error at 23°C (related to I_{PN})	< 5 ppm
Offset drift (TC)	< 2 ppm/K
Offset error versus time	< 1 ppm/month
Offset error versus supply voltage	< 20 ppm/V
Linearity error (related to actual I_p)	< 4 ppm
Induced voltage into a 1-turn primary busbar	< 7.5 mV _{pp}

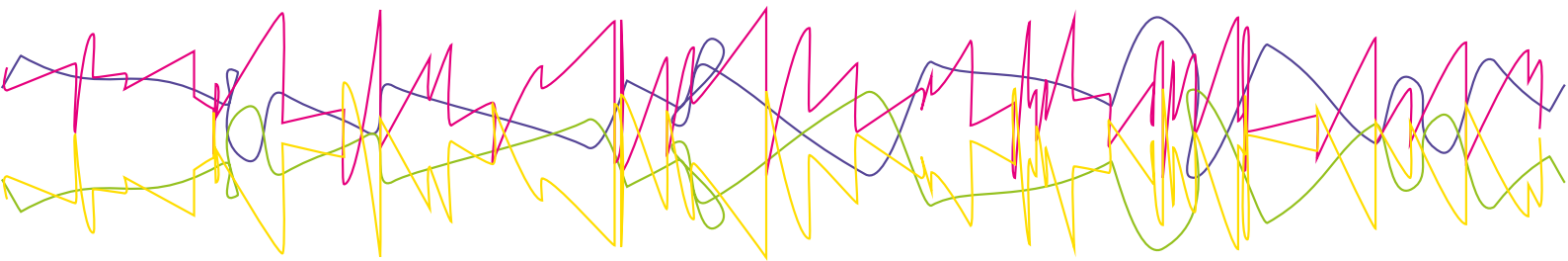
General data

Supply voltage	± 14.5 V ... ± 15.5 V
Power consumption at I_{PN}	<2.7 W ($R_b = 0 \Omega$, $V_S = 15$ V)
Output Valid indicator	No
Output Valid signal	N-Channel MOSFET $I_{MAX} = 150$ mA, $V_{MAX} = 40$ Vp
Polarity protection	No
Ambient operating temperature	0 ... +50 °C
Relative Humidity	20 ... 80 % (Non condensing)
Ambient storage temperature	0 ... +75 °C
Relative Humidity	20 ... 80 % (Non condensing)
Pollution degree	2



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Housing

Dimensions (H x W x D)	35 x 55 x 70 mm
Material	ABS
Weight	160 gram

Safety

Protection Class	III (IEC60950-1, Supplied by external SELV power source)
Protection degree	
Terminals	IP00 (Test finger, EN 60 529)
Housing	IP00 (Test finger, EN 60 529)
Flammability class acc. UL94	V-1
Isolation characteristics	
Creepage distance	10 mm (between primary busbar and housing)
Clearance distance	10 mm (between primary busbar and housing)
CTI (Comparative Tracking Index)	600
Isolation test voltage	
Prim.busbar to output	2.5 kV / 50 Hz, 1 min (IEC61010-1)

