

MC33FS6502CAE (Active)

System Basis Chip, DCDC 0.8A Vcore LDT CAN, LQFP48EP

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Package :

[LQFP](#)

plastic, low profile quad; flat leaded package; 48 terminals; 0.50 mm pitch; 7 mm x 7 mm x 1.4 mm body

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Buy Options

MC33FS6502CAEActiveTRAY-Tray, Bakeable, Multiple in Drypack

Distributor

935312534557

Min. Package Quantity: 250

Lead Time: 0 weeks

MC33FS6502CAER2ActiveREEL-Reel 13" Q2/T3 in Drypack

Distributor

935312534528

Min. Package Quantity: 2000

Lead Time: 17 weeks

Operating Characteristics

Parameter	Value
Additional Features - Security	1x Fail-safe output, Challenger Watchdog, External IC monitoring, FCCU monitoring, Reset Output, UV/OV Monitoring
Additional Features - Analog	Analog MUX, Battery and I/O V. Measurement, Diagnostics Reporting, Keep Alive Memory Supply, Long Duration Timer, Low Power OFF Mode, Wake up capabilities
Ambient Operating Temperature (Min-Max) (°C)	-40 to 125
CAN	2
Device Function	SMPS, linear regulators, system basis chip
Diagnostics	1x Fail-safe output, Challenger Watchdog, External IC monitoring, FCCU monitoring, Reset Output, UV/OV Monitoring
GPIOs	5
Num. of Linear/LDO Regulators	3

Parameter	Value
Number of Regulators-Boost Switching	1
Number of Regulators-Buck Switching	2
Protection	overcurrent, overtemperature, overvoltage, short-circuit, undervoltage
Output Current (A)	0.8
Supply voltage [typ] (V)	12
Supply voltage [min] (V)	-1
Supply voltage [max] (V)	40

Environmental Information

Material Declaration	PbFree	EU RoHS	Halogen Free	RHF Indicator	2nd Level Interconnect	REACH SVHC	Weight (mg)
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Material Declaration	PbFree	EU RoHS	Halogen Free	RHF Indicator	2nd Level Interconnect	REACH SVHC	Weight (mg)
MC33FS6502CAE (935312534557)	Yes	Yes Certificate Of Analysis (CoA)	Yes	D	e3	REACH SVHC	187.5
MC33FS6502CAER2 (935312534528)	Yes	Yes Certificate Of Analysis (CoA)	Yes	D	e3	REACH SVHC	187.5

Quality Information

Material Declaration	Safe Assure Functional Safety	Moisture Sensitivity Level (MSL)	Peak Package Body Temperature (PPT) (C°)	Maximum Time at Peak Temperatures (s)
		Lead Free Soldering	Lead Free Soldering	Lead Free Soldering
MC33FS6502CAE (935312534557)	ISO 26262	3	260	40
MC33FS6502CAER2 (935312534528)	ISO 26262	3	260	40

Shipping Information

Part Number	Harmonized Tarrif (US) Disclaimer	Export Control Classification Number (US)
MC33FS6502CAE (935312534557)	854239	EAR99
MC33FS6502CAER2 (935312534528)	854239	EAR99

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