

BALANCED DUAL-LINE EMI FILTER

OVERVIEW: Multilayer chip EMI Filter has balanced impedance for superior filtering of radiated and conducted common-mode EMC noise. The terminal arrangement of this low ESL component also supports connection option for single-ended (power bypass) noise reduction applications.

PART NUMBER: E18M0035B100MN

E18M	0035	B	100	M	N
Size 1206 (3216)	SRF 35 MHz	TC +/- 15%	Voltage 100 VDC	Cap. Tol ± 20%	Terminal Standard

CHARACTERISTICS:

Case Size	1206 EIA (3216 Metric)	
SRF	35MHz	
Inductance:	56pH power bypass, 212pH dual-line EMI filter	
Capacitance:	100nF (x 2)	
Rated Voltage:	100 VDC	
Temperature Coefficient:	±15% (-55 to +125°C)	
Dissipation Factor:	≤ 2.5% (0.025)	
Insulation Resistance:	IR> 500 Ω•F or 10GΩ whichever is less Measurement at 25°C, WVDC, time is 2 minutes max.	
Dielectric Strength:	2.5XWVDC, 25°C, 50mA max.	
Capacitance Aging:	≤ 2.5%/decade hour	
Test Conditions:	1kHz±50Hz; 1.0±0.2VRMS	

PHYSICAL SIZE:

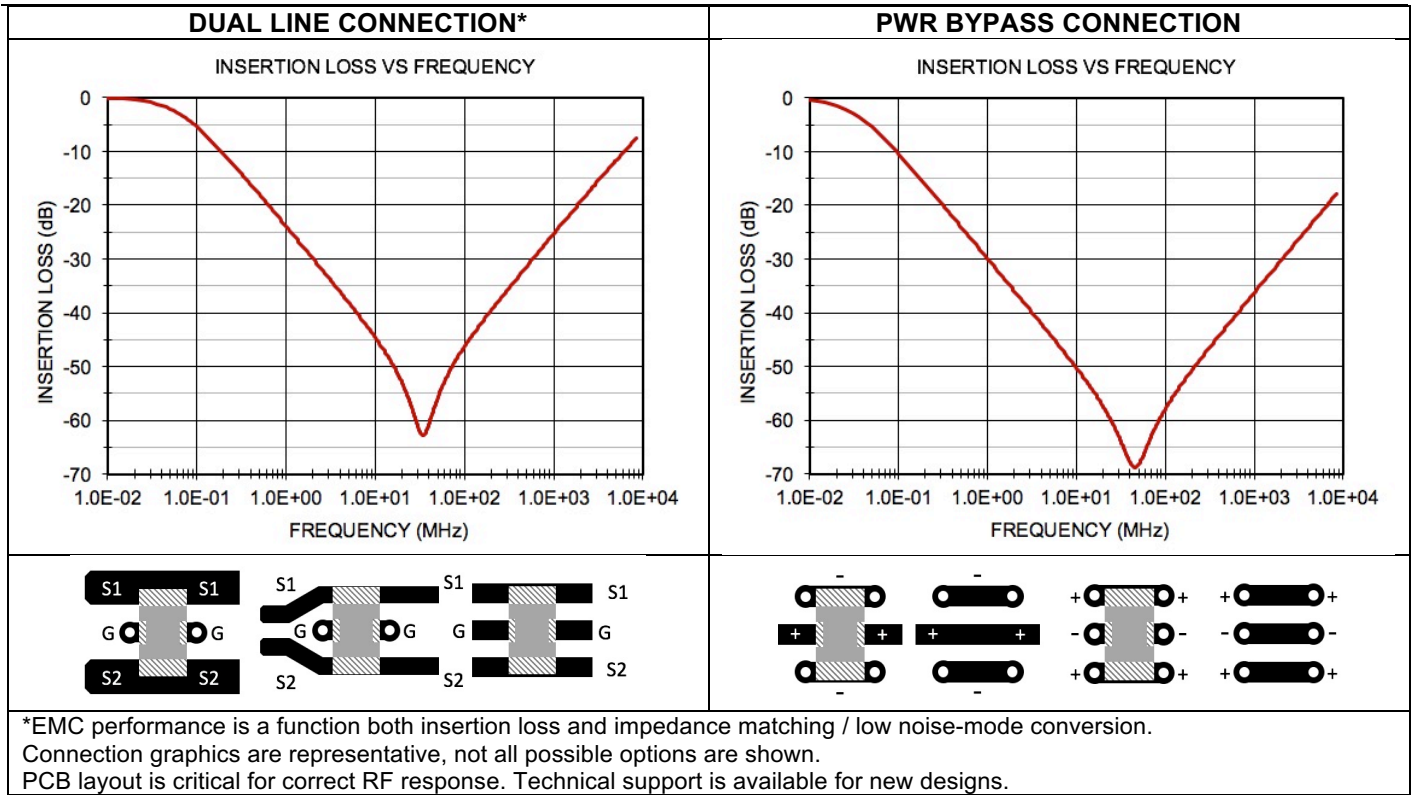
SIZE	IN	(mm)
L	.124 ± .010	3.15 ± .254
W	.063 ± .010	1.60 ± .254
T	.050 max.	1.27 max.
EB	.016 ± .010	.406 ± .254
CB	.040 ± .005	1.016 ± .127
WB	.006 ± .004	.152 ± .100

ENVIRONMENTAL

Meets Rohs & Reach directives	MSL Rating: 1
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EMI FILTER INSERTION LOSS

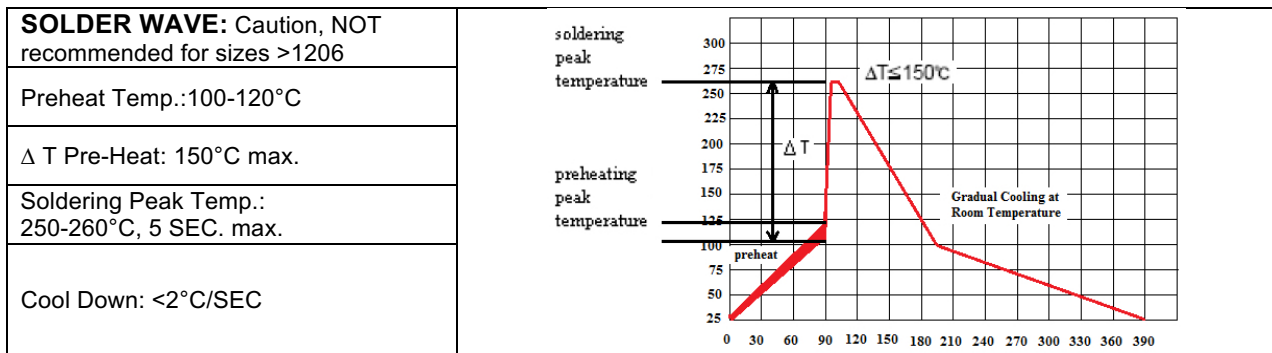
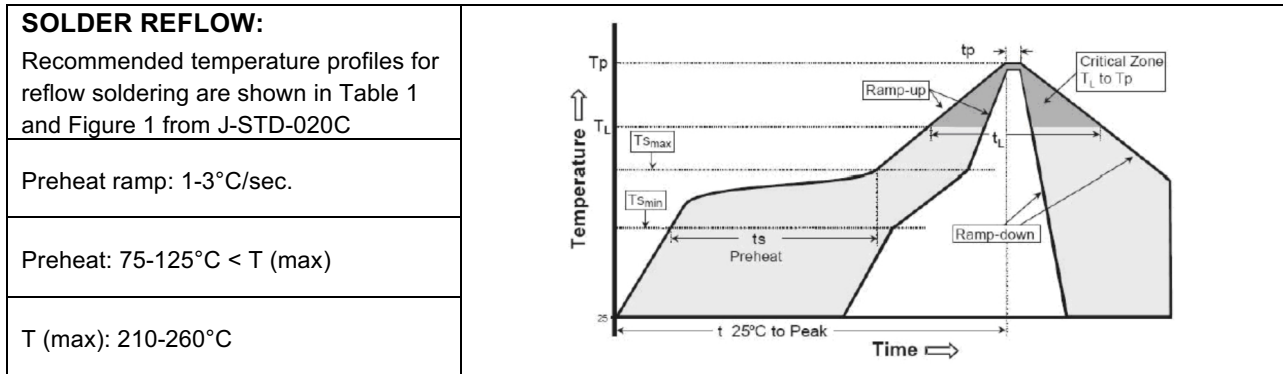


SOLDER PAD RECOMMENDATIONS:

	SOLDER REFLOW		SOLDER WAVE	
	IN	mm	IN	mm
X	0.065	1.650	0.046	1.160
Y	0.040	1.020	0.040	1.020
G	0.080	2.030	0.080	2.030
V	0.040	1.020	0.040	1.020
U	0.120	3.050	0.120	3.050
Z	0.160	4.060	0.160	4.060

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SOLDER PROCESS RECOMMENDATIONS:



SOLDERING IRON: NOT SUPPORTED for use in mass production Not recommended for lab proto-typing, use solder reflow, hot-air tool, or conductive epoxy to avoid thermal damage and compromised test results. If Iron is used, follow below precautions:
<ul style="list-style-type: none"> • Preheat circuit and capacitors to within 100° C of soldering temperature • No contact of iron tip with component • 20 watt iron output (max) • 350° C tip temperature (max) • 1.0 mm tip diameter (max) • Limit soldering time to 3 sec. (max)

PACKAGING SPECIFICATIONS

Specification EIA standard 481

PART SIZE	7" REEL QTY
1206 (3216)	3,000

CONTACT INFORMATION

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