

Multilayer Ceramic Chip Capacitor

Part Number	: 1808JA250561J	GTS2X		1808 250Vac (X2) 50/60Hz / 1000Vdc 560pF ±5% C0G/NP0 (1B)		
Approval	IEC/EN60384-14:2013+A	1		~		
Specifications:	UL60384-14, CAN/CSA E	60384-14:14				
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Certification:	TÜV R60153659 / ID1111	233476		T		
	UL/cUL E228790-20200917					
	IEC/EN 60384-14:2013+A1 Class X2 UL/cUL FOWX2, FOWX8		\prec			
Classification:			L2 L4			
			Component Marking and Certification Bodies:			
Material Group I	: CTI >= 600		େ2X	C C C C C C C C C C C C C C C C C C C		
Mechanical Specification						
Size Code			1808			
Length (L1) in mm ('	Length (L1) in mm (")			4.5 ± 0.35 (0.180 ± 0.014)		
Width (W) in mm (")			2.0 ± 0.30 (0.08 ± 0.012)			
Thickness (T) in mm	Thickness (T) in mm (")			1.5 Max (0.06 Max)		
Minimum Terminatio	Minimum Termination Band (L2,L3) in mm (")			0.50 (0.020)		
Maximum Termination	Maximum Termination Band (L2,L3) in mm (")			0.80 (0.030)		
Minimum Band Gap	Minimum Band Gap (L4) in mm (")			3.0 (0.118)		
Termination Materia	l		Nickel Barrier, Sn Plated Solder (RoHS compliant)			
Solderability			IEC-60068-2-58			
Packaging			7" Reel Horizontal Orientation, 1500 per reel			
General Electrical Specification						
Rated Voltage			Class X2 (250Vac), 50/60Hz, 2.5kV impulse			
Humidity Grade			Grade III (IEC/EN60384-14:2013 Annex 1)			
Maximum DC Working Voltage			1000Vdc certified / (2500Vdc outside scope of any specification)			
Nominal Capacitance Value			560pF			
Capacitance Tolerance			±5%			
Tangent of Loss Angle (Tan δ)			≤0.0015			
Capacitance and Tan δ Test Conditions			1.0Vrms @ 1MHz			
Voltage Proof		100% test: 3000Vdc 1s min / 5s max AQL test: 3225Vdc / 1500Vac 60s min / 2.5kV 1.2x50µs impulse				
(50mA max charging current for DC tests) Min Insulation Resistance (IR)		100.00GOhm @ 100Vdc				
Dielectric Classification		C0G/NP0 (1B)				
Rated Temperature Range		-55°C / +125°C				
			No DC Voltage 0±30ppm/°C			
Maximum Capacitance Change over Temperature Range			Rated DC Voltage -			
Climatic Category (IEC)			55/125/56			
Ageing Characteristic			Zero			
Knowles Precis	sion Devices - Sales			med valid on the date generated, the latest published data		
Europe: KPD-Euro	ppe-sales@knowles.com	for this part may differ and is available at http://www.knowlescapacitors.com or by contacting us.				
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www.knowlescapacitors.com specification.				20210902 182543222UTC		



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NOVACAP + SYFER + VOLTRONICS							
Part Number: 1808JA250561J	GTS2X	Description:	1808 250Vac (X2) 50/60Hz / 1000Vdc 560pF ±5% C0G/NP0 (1B)				
Environmental							
RoHS Compliant to 2011/65/EC as amende	ed by 2015/863/EU	Compliant					
REACH Compliant		211 compliant					
California Proposition 65		No exposure risk					
Board Layout							
Knowles' conventional 2-terminal chip generally be mounted using pad designs i international specification IPC-7351, Gen for Surface Mount Design and Land Patter there are some other factors that have bee mechanical stress, such as reducing the than the chip width. In addition, the position board should be considered. Some high voltage parts may require m board layout and/or the addition of a co prevent flashover. Refer to application further information.	n accordance with eric Requirements ern Standards, but n shown to reduce pad width to less n of the chip on the odifications to the nformal coating to		IPC-7351 pad design 1808 C 4.10mm 0.161" Y 1.50mm 0.059" X 2.30mm 0.091" X 2.30mm 0.091"				
Packaging							
Tape packaging information for tape-ar Tape and reel packing of surface mour capacitors for automatic placement are with IEC60286-3.	ting chip		Product identifying label Plastic carrier tape Top tape 8 or 12mm 178mm (7") or nominal 330mm (13") dia. reel				
Soldering							
Reflow solder in accordance with IPC- Recommended reflow profile as laid do IPC/JEDEC J-STD-020. Wave soldering is also possible, but ca taken for case sizes 1210 and larger a thickness >1.0mm. Trials are encourage Hand soldering is not recommended an component damage through thermal solution	own in are must be nd component jed. nd can lead to	Temperature	Max Min t t t t t t t t t t t t t t t t t t t				
Application notes with mounting and handling guidance are available on request.							
Compex DLI .	Johanson MFG	Novacap	Syfer Voltronics				
Knowles Precision Devices - Sales This datasheet is for a standard item and is confirmed valid on the date generated, the latest published data							
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USA: KPD-NA-sales@knowles.com any form or disclosed to		ained on this drawing is e copied in whole or part in hird party without the consen comer mentioned within this	omissions excepted.				