




Ceramic Capacitors(SMD)





《Search Conditions》

GRM188R6(Starting with ...)
Capacitance 3 DigitCode:330000 to 4700000(pF)
Tolerance of capacitance:±10%,±20%

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61C475KE11# In Production	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	16Vdc	4.7μF	±10%	
GRM188R61C475ME11# In Production	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	16Vdc	4.7μF	±20%	
GRM188R61E225KA12# In Production	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	2.2μF	±10%	

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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61E225MA12# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	2.2μF	±20%	
GRM188R61E475KE11# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	25Vdc	4.7μF	±10%	
GRM188R61E475ME11# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	25Vdc	4.7μF	±20%	
GRM188R61H225KE11# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.2mm	0.8 ±0.2mm	0.8 ±0.2mm	X5R(EIA)	50Vdc	2.2μF	±10%	





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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61H225ME11# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.2mm	0.8 ±0.2mm	0.8 ±0.2mm	X5R(EIA)	50Vdc	2.2μF	±20%	
GRM188R6YA225KA12# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	35Vdc	2.2μF	±10%	Derating1
GRM188R6YA225MA12# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	35Vdc	2.2μF	±20%	Derating1
GRM188R6YA475KE15# <div>In Production</div>	<div>85°C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.2mm	0.8 ±0.2mm	0.8 ±0.2mm	X5R(EIA)	35Vdc	4.7μF	±10%	





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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R6YA475ME15# In Production	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.2mm	0.8 ±0.2mm	0.8 ±0.2mm	X5R(EIA)	35Vdc	4.7μF	±20%	
GRM188R60J105KA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	1μF	±10%	
GRM188R60J105MA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	1μF	±20%	
GRM188R60J225KE01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	2.2μF	±10%	

Automotive





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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R60J225ME01# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	2.2μF	±20%	
GRM188R60J334KA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.33μF	±10%	
GRM188R60J334MA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.33μF	±20%	
GRM188R60J394KA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.39μF	±10%	

Automotive

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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R60J394MA01# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.39μF	±20%	
GRM188R60J474KA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.47μF	±10%	
GRM188R60J474MA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.47μF	±20%	
GRM188R60J475ME84# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	4.7μF	±20%	Please use alternative.

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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R60J564KA01# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.56μF	±10%	
GRM188R60J564MA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.56μF	±20%	
GRM188R60J684KA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.68μF	±10%	
GRM188R60J684MA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.68μF	±20%	

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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R60J824KA01# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.82μF	±10%	
GRM188R60J824MA01# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	0.82μF	±20%	
GRM188R61A105KA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	1μF	±10%	
GRM188R61A105MA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	1μF	±20%	





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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61A334KA61# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.33μF	±10%	
GRM188R61A334MA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.33μF	±20%	
GRM188R61A394KA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.39μF	±10%	
GRM188R61A394MA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.39μF	±20%	





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GRM188R61A474KA12# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.47μF	±10%	
GRM188R61A474KA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.47μF	±10%	
GRM188R61A474MA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.47μF	±20%	
GRM188R61A475KAAJ# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	10Vdc	4.7μF	±10%	





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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61A475MAAJ# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	10Vdc	4.7μF	±20%	
GRM188R61A564KA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.56μF	±10%	
GRM188R61A564MA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.56μF	±20%	
GRM188R61A684KA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.68μF	±10%	

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GRM188R61A684MA61# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.68μF	±20%	
GRM188R61A824KA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.82μF	±10%	
GRM188R61A824MA61# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	0.82μF	±20%	
GRM188R61C105KA12# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	1μF	±10%	Derating1

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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61C105MA12# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	1μF	±20%	Derating1
GRM188R61C225KAAD# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	2.2μF	±10%	
GRM188R61C225MAAD# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	2.2μF	±20%	
GRM188R61C334KA12# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.33μF	±10%	Derating1





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GRM188R61C334MA12# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.33μF	±20%	Derating1
GRM188R61C474KA12# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.47μF	±10%	Derating1
GRM188R61C474KA93# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.47μF	±10%	
GRM188R61C474MA12# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.47μF	±20%	Derating1

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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61C474MA93# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.47μF	±20%	
GRM188R61C684KA75# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.68μF	±10%	
GRM188R61C684MA75# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	0.68μF	±20%	
GRM188R61E105KAAD# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	1μF	±10%	

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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61E105MAAD# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	1μF	±20%	
GRM188R61E225ME84# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.15mm	0.8 ±0.15mm	0.8 ±0.15mm	X5R(EIA)	25Vdc	2.2μF	±20%	Derating ¹
GRM188R61E474KA12# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	0.47μF	±10%	
GRM188R61E474MA12# NRND	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	0.47μF	±20%	

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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61E684KA75# NRND	85°C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	0.68μF	±10%	
GRM188R61E684MA75# NRND	85°C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	0.68μF	±20%	
GRM188R61H474KA12# NRND	85°C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	50Vdc	0.47μF	±10%	
GRM188R61H474MA12# NRND	85°C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	50Vdc	0.47μF	±20%	

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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61H684KA75# NRND	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	50Vdc	0.68μF	±10%	Derating1
GRM188R60J225KE19# To be discontinued	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	2.2μF	±10%	
GRM188R60J225ME19# To be discontinued	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	2.2μF	±20%	
GRM188R60J475KE19# To be discontinued	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	4.7μF	±10%	

Automotive





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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R60J475ME19# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	6.3Vdc	4.7μF	±20%	
GRM188R61A225KE34# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	2.2μF	±10%	
GRM188R61A225ME34# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	2.2μF	±20%	
GRM188R61A335KE15# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	3.3μF	±10%	

Automotive





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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61A335ME15# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	3.3μF	±20%	
GRM188R61A475KE15# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	4.7μF	±10%	Please use alternative.
GRM188R61A475ME15# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	10Vdc	4.7μF	±20%	Derating1
GRM188R61C105KA93# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	1μF	±10%	





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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61C105MA93# <div>To be discontinued</div>	85 °C max. Reflow OK Flow OK	Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	1μF	±20%	
GRM188R61C225KE15# <div>To be discontinued</div>	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	16Vdc	2.2μF	±10%	
GRM188R61E105KA12# <div>To be discontinued</div>	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	1μF	±10%	
GRM188R61E105MA12# <div>To be discontinued</div>	85 °C max. Reflow OK Flow OK	Automotive Consumer equipment, Industrial Equipment,Mobile Electronics,Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	25Vdc	1μF	±20%	

Automotive





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Ceramic Capacitors(SMD)

Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R61H105KAAL# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	50Vdc	1μF	±10%	
GRM188R61H105MAAL# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	50Vdc	1μF	±20%	
GRM188R6YA105KA12# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	35Vdc	1μF	±10%	Derating1
GRM188R6YA105KAAL# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Automotive Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment,		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	35Vdc	1μF	±10%	

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Part Number	Characteristic	Specific Applications	Appearance	Length	Width	Thickness	Temperature characteristics	Rated Voltage	Capacitance	Tolerance of capacitance	Notes
GRM188R6YA105MA12# <div>To be discontinued</div>	<div>85 °C max.</div> <div>Reflow OK</div> <div>Flow OK</div>	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive		1.6 ±0.1mm	0.8 ±0.1mm	0.8 ±0.1mm	X5R(EIA)	35Vdc	1μF	±20%	Derating1

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