



# NOVACAP RF2525 SERIES CAPACITORS



NOVACAP manufactures a new improved ESR performance RF2525 series capacitors. This series has been designed for rugged environments in high power broadband coupling and switching power supplies. The Class II ceramic dielectric affords high volumetric efficiency with negligible piezoelectric effects. Please contact the factory for higher WVDC, capacitance values not listed, tolerance, or leading options.

## CAPACITANCE & VOLTAGE SELECTION

CAP CODE	CAP (μF)	TOL.	RATED WVDC	CAP CODE	CAP (μF)	TOL.	RATED WVDC	CAP CODE	CAP (μF)	TOL.	RATED WVDC
103	0.010	K,M	300	683	0.068	K,M	250	334	0.330	K,M	150
123	0.012	K,M	300	823	0.082	K,M	200	474	0.470	K,M	150
153	0.015	K,M	300	104	0.100	K,M	200	564	0.560	K,M	150
223	0.022	K,M	300	124	0.120	K,M	200	684	0.680	K,M	150
333	0.033	K,M	250	154	0.150	K,M	200	824	0.820	K,M	100
473	0.047	K,M	250	224	0.220	K,M	200	105	1.000	K,M	100

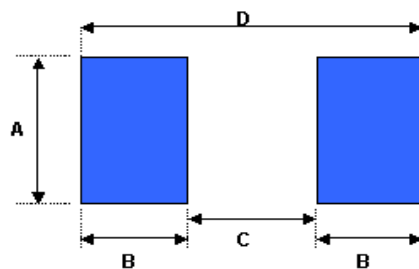
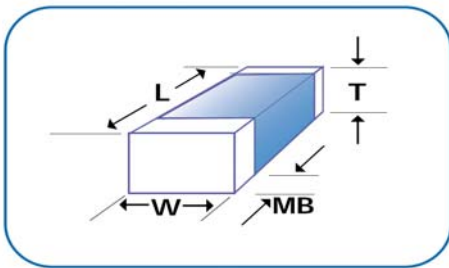
## DIMENSIONS INCHES (MM)

SIZE	NOMINAL	TOLERANCE
LENGTH L	.230 (5.84)	+0.020-.012 (+0.51-0.30)
WIDTH W	.250 (6.35)	±.015 (0.38)
T MAX	.165 (4.19)	Maximum
MB	.030 (.762)	±.015 (0.38)

## RECOMMENDED MOUNTING PADS

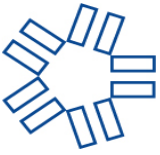
SIZE	A Min.	B Min.	C Min.	D Min.
VERT	.185"	.050"	.200"	.300"
HORIZ	.280"	.050"	.200"	.300"

VERT =Vertical Mount,HORIZ =Horizontal Mount

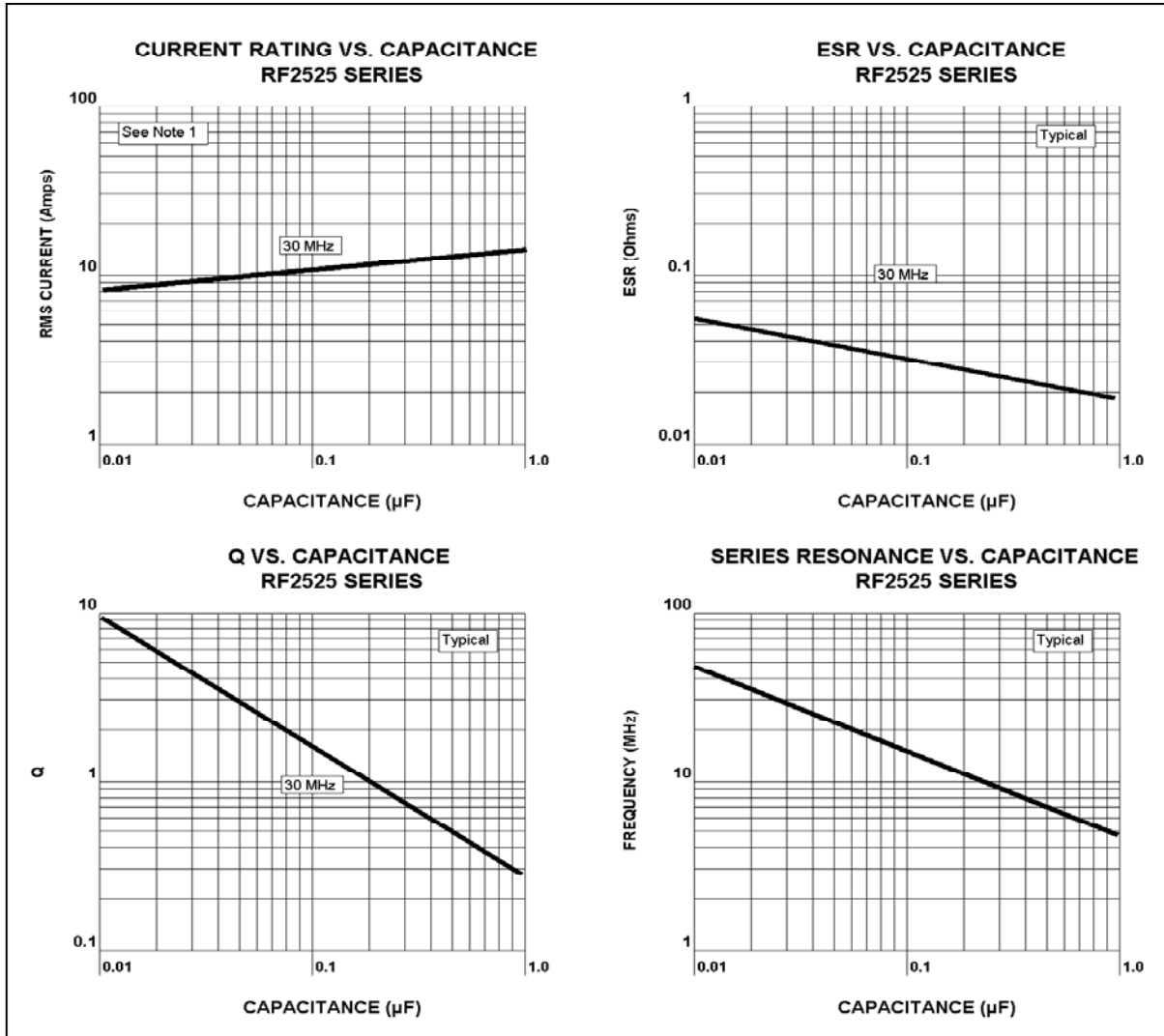


## DIELECTRIC CHARACTERISTICS

Operating Temp Range	-55°C to 125°C
Temperature Coefficient	± 15% Maximum
Dissipation Factor	.025 (2.5%) Max
Insulation Resistance @ 25°C	>1000ΩF
Insulation Resistance @ 125°C	>100ΩF
Dielectric Withstanding Voltage	2.5X WVDC, 5 Seconds
Test Parameters	1KHz, 1.0VRMS, 25°C



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Note 1: Current rating based a device thermal resistance of 15°C/W and a 65°C mounting surface.  
4 Watts of power dissipation will result in a 125°C case temperature.

## HOW TO ORDER

RF	2525	B	104	K	201	X145	N	T
<b>SERIES</b>	<b>SIZE</b> See Chart	<b>DIELECTRIC</b> B = X7R Class II	<b>CAPACITANCE</b> Value in PicoFarads Two significant figures, followed by number of zeros: 473 = 47,000pF	<b>TOLERANCE</b> K = +/- 10 % M = +/- 20 %	<b>VOLTAGE VDCW</b> Two significant figures, followed by number of zeros: 101 = 100V 151 = 150V 201 = 200V	<b>THICKNESS</b> .145" (3.68) max thickness for cap values <824  X165 for 824 and 105 cap values	<b>TERMINATION</b> K = Solderable Palladium/Silver (Non-Magnetic)  N = Nickel barrier 100% Tin (RoHS)  Y = Nickel barrier 90% Tin/10%Lead	<b>PACKING OPTION</b> T=Reeled W=Waffle None= Bulk