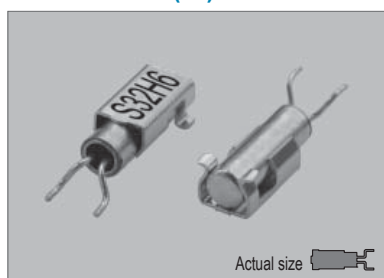


Quartz Crystal Units

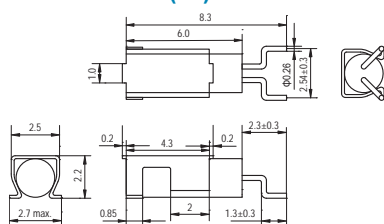
26(LF)MJ STANDARD 32.768kHz SMD CRYSTALS

26(LF)MJ

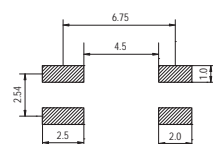


0.079 gm (wt.)

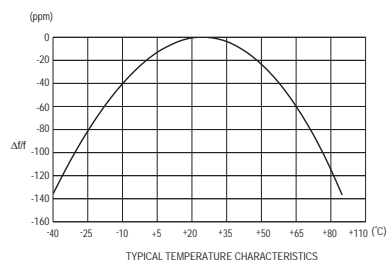
26(LF)MJ



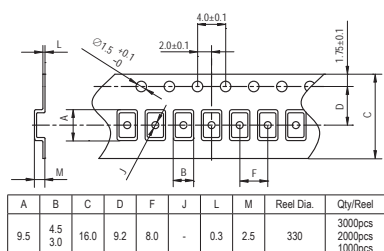
SOLDERING PATTERN



XY-CUT



TAPE SPECIFICATIONS



STANDARD SPECIFICATIONS

Item	Symbol	Specifications
Part number	P/N	26(LF)327MJ*1
Package Type		26(LF)MJ*2
Nominal frequency	F	32.768 kHz
Frequency tolerance (at +25°C)	$\Delta f/F$	A : $\pm 15$ ppm B : $\pm 20$ ppm C : $\pm 30$ ppm (Standard) D : $\pm 50$ ppm
Load capacitance	CL	12.5 pF
Equivalent series resistance	ESR	50k $\Omega$ max. (To : -40°C to +85°C)
Drive level	P	1 $\mu$ W max.
Turnover temperature	Tt	+25°C $\pm 5$ °C
Temperature coefficient	$\beta$	-0.034 ppm / °C <sup>2</sup> , Typical
Quality factor	Q	50000 min.
Shunt capacitance	C0	1.45 pF, Typical
Motional capacitance	C1	0.003 pF, Typical
Capacitance ratio	$\gamma$	480, Typical
Aging (for first year)	$\Delta f/F$	$\pm 5$ ppm max. at +25°C $\pm 3$ °C
Insulation resistance	Ri	500 M $\Omega$ min. at 100V DC $\pm 15$ V
Cut		XY-Cut
Operating temperature range	To	-40°C to +85°C
Storage temperature range	Ts	-55°C to +125°C
Shock resistance	$\Delta f/F$	$\pm 10$ ppm max.
Vibration resistance	$\Delta f/F$	$\pm 10$ ppm max.
IR reflow resistance	$\Delta f/F$	$\pm 10$ ppm max.
Reflow condition		10 seconds max. at +250°C $\pm 10$ °C

(\*1) Formerly 26STF327(LF)MJN  
(\*2) Formerly 2x6(LF)MJN

PACKAGE DATA

Item	Package	26(LF)MJ
Cover		Metal
Base		Glass
Sealing		Press-fit
Metal clamp		CuSn
Metal clamp plating		Gold
Terminal lead		Kovar
Terminal lead plating		Sn-90Pb
RoHS		Compliant

XTAL  
CLK OSC  
VCXO  
TCXO  
OCXO  
MCF