

HITANO ENTERPRISE CORP

Change Notification

(MKT-9709-0002)

Material Specification Process Others

Subject: New Technology Change of MLCC NP0 Series from NME to BME products

Reasons:

BME (Base Metal Electrode) product is advanced mainstream technology of MLCC, we will change the NME (Noble Metal Electrode) to BME base material to keep same electrical & mechanical performance and satisfy cost reduction trend in market.

Contents:

1. Influence product range:

Size (inch/mm)	Rated voltage	Capacitance	Tolerance
0402 / 1005	10~100V	10 ~ 220pF	F,G, J
0603 / 1608	10~50V	22 ~ 1000pF	B,C,D ,F,G, J
	100V	0.5 ~ 1000pF	
	200V~250V	0.5 ~ 220pF	
0805 / 2012	10~50V	0.5 ~ 4700pF	B,C,D ,F,G, J
	100V	0.5~3900pF	
	200V	0.5~820pF	
	25~630V	0.5~390pF	
1206 / 3216	10~50V	1.5 ~ 10000pF	B,C,D ,F,G, J
	100V	1.5 ~ 8200pF	
	200V	1.5 ~ 2200pF	
	250~630V	1.5 ~ 1000pF	

2. Material status:

	Original NME base	New BME base
Dielectric	BaTiO3 base	BaTiO3 base
Inner electrode	PdAg	Ni
End termination (inner)	Ag	Cu
End termination(middle)	Ni	Ni
End termination (outer)	Sn (Matte)	Sn (Matte)

3. There has no part number change after material switched.

Remark:

1. There is no quality, electrical & mechanical performance different after material & process changed.
2. The new BME products completely meet RoHs compliance.
3. There will have 6 months overlapping period to deliver goods made NME & BME in same shipment.
4. The product made by NME or BME which can be separated and controlled by HITANO's internal part number. HITANO can deliver right goods to customer if who only can accept one specific product.

Latest Effective Date: Jan 01,2009

Prepared by: May Wu /Quality Director

Issued By : Paul Shea (Sep 01, 2008)
/ Vice President

To: Cc:

Customer: ALL
 HITANO Q&R: M.L. Yang
 HITANO Sales: ALL

Feedback by Customer :

(Please note the name of person in charge and autograph signed back is preferred.)

Accept for all PN of Parts
 Accept for Own Brand PN of AVL, except OEM's PN of AVL
 Reject, Reason:
(Please kindly feedback before Nov 15 , 2008 otherwise the change will be effective since Jan. 01, 2009.)